

TA-DK2

SERVICE MANUAL

E Model

Ver. 1.0 2006. 12



SPECIFICATIONS

Amplifier section

Models of area code MY, SP

Stereo Power Output¹⁾

6 ohms 1 kHz, THD 1 % 70 W + 70 W

Reference Power Output^{1,2)}

6 ohms 1 kHz, THD 10 % 110 W/ch

1) Measured under the following conditions:

Area code	Power requirements
MY, SP	230 V AC, 50 Hz

2) Reference power output for front speakers.

Depending on the source, there may be no sound output.

Frequency response

Analog 20 Hz – 50 kHz
+0.5/-2 dB (with tone bypassed)

Inputs

Analog Sensitivity: 800 mV/
50 kohms
S/N³⁾: 96 dB
(A, 800 mV⁴⁾)

Outputs (Analog)

SUB WOOFER Voltage: 2 V/1 kohm

Tone

Gain levels ±6 dB, stepless

3) INPUT SHORT (with tone bypassed).

4) Weighted network, input level.

General

Power requirements

Area code	Power requirements
MY, SP	230 – 240 V AC, 50/60 Hz

Power consumption 165 W

Power consumption (during standby mode)

0.2 W

Dimensions (w/h/d) (Approx.)

430 × 145 × 296 mm
including projecting parts
and controls

Mass (Approx.) 6.7 kg

Supplied accessories

Remote commander RM-AAU011 (1)
R6 (size-AA) batteries (2)

Design and specifications are subject to change
without notice.

- Abbreviation

MY : Malaysia model

SP : Singapore model

INTEGRATED STEREO AMPLIFIER

9-887-496-01

2006L04-1

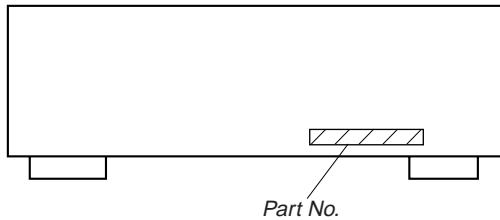
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Sony Corporation

Home Audio Division

Published by Sony Techno Create Corporation

SONY®

MODEL IDENTIFICATION
— BACK PANEL —


MODEL	PART No.
MY, SP	2-891-887-0□

• Abbreviation

- MY : Malaysia model
SP : Singapore model

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1

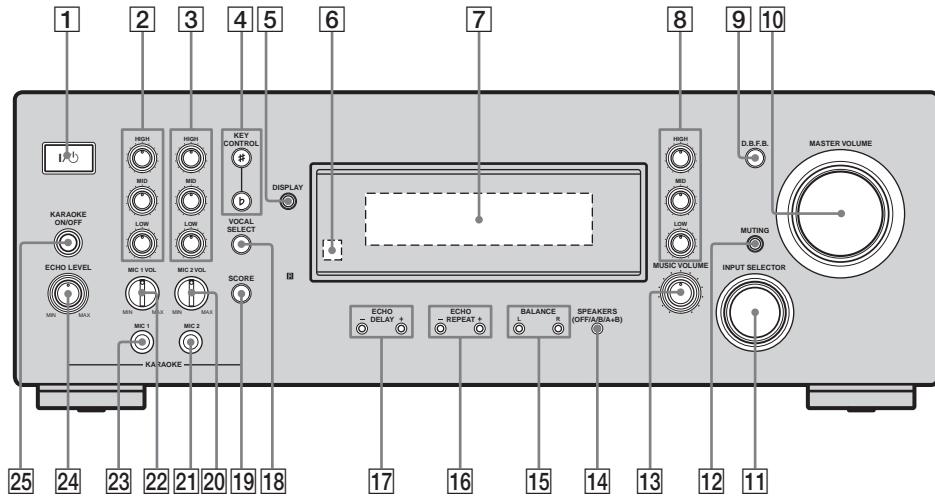
GENERAL

This section is extracted from instruction manual.

Getting Started

Description and location of parts

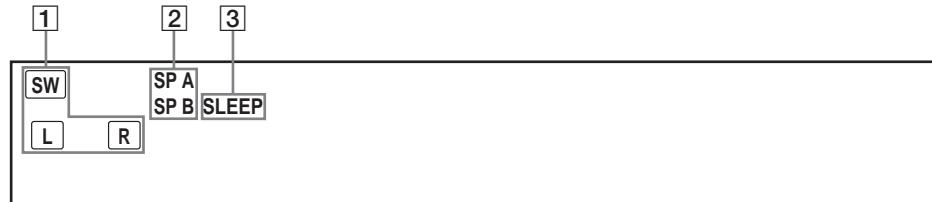
Front panel



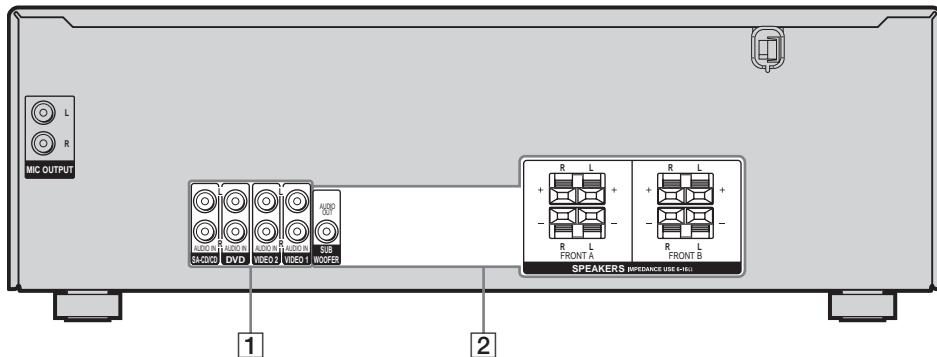
Name	Function
[1] I/O (on/standby)	Press to turn the amplifier on or off (page 16, 19, 20).
[2] MIC 1 Tone knobs (LOW/MID/HIGH)	Turn to adjust the microphone 1 tone level (page 23).
[3] MIC 2 Tone knobs (LOW/MID/HIGH)	Turn to adjust the microphone 2 tone level (page 23).
[4] KEY CONTROL #/b	Press to adjust the pitch of the music (page 25).
[5] DISPLAY	Press to select information displayed on the display (page 28).
[6] Remote sensor	Receives signals from remote commander.
[7] Display	The current status of the selected component or a list of selectable items appears here (page 6).
[8] Music Tone knobs (LOW/MID/HIGH)	Turn to adjust the music tone level (page 23).
[9] D.B.F.B.	Press to activate the Dynamic Bass Feedback (D.B.F.B.) function (page 22).
[10] MASTER VOLUME	Turn to adjust the volume level of all speakers at the same time (page 18, 19, 20).
[11] INPUT SELECTOR	Turn to select the input source to playback (page 18, 19, 20, 22).
[12] MUTING	Press to mute the sound.
[13] MUSIC VOLUME	Turn to adjust the music volume level (page 22, 23).

Name	Function
[14] SPEAKERS (OFF/A/B/A+B)	Press to select OFF, A, B, A+B of the front speakers (page 17).
[15] BALANCE L/R	Press to adjust the front speakers balance level.
[16] ECHO REPEAT +/-	Press to adjust the microphone's echo repeat times (page 27).
[17] ECHO DELAY +/-	Press to adjust the microphone's echo delay time (page 27).
[18] VOCAL SELECT	Press to select the vocal type when singing karaoke.
[19] SCORE	Press to activate the scoring system (page 25).
[20] MIC 2 VOL	Turn to adjust the microphone 2 volume level (page 22).
[21] MIC 2 jack	Connects to a microphone.
[22] MIC 1 VOL	Turn to adjust the microphone 1 volume level (page 22).
[23] MIC 1 jack	Connects to a microphone.
[24] ECHO LEVEL	Turn to adjust the microphone's echo level (page 23, 26).
[25] KARAOKE ON/OFF	Press to turn karaoke function on or off (page 22).

About the indicators on the display



Name	Function
1 Playback channel indicators	Indicate that audio signal is output from the front left speaker, front right speaker and sub woofer.
SW	Sub Woofer
L	Front Left
R	Front Right
2 SP A/SP B	Lights up according to the speaker system used. However, these indicators do not light up if the speaker output is turned off.
3 SLEEP	Lights up when the sleep timer is activated (page 28).

Rear panel**1 AUDIO INPUT section**

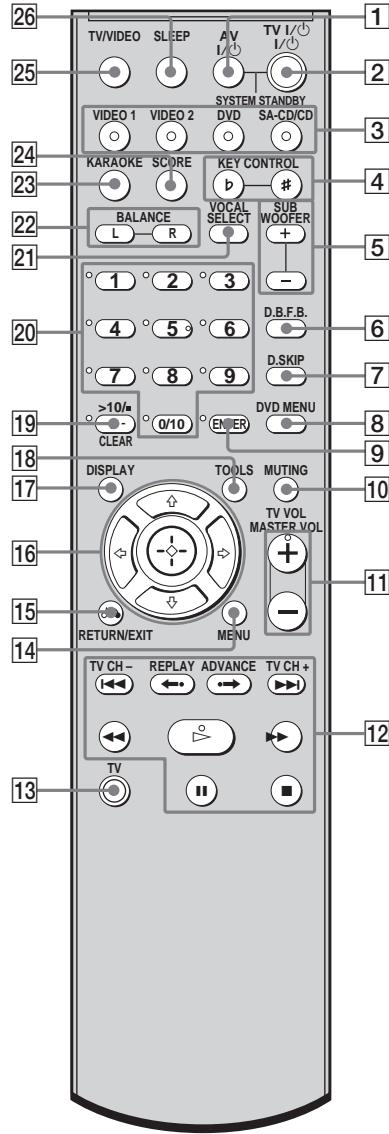
- | | | |
|--|----------|---|
| | AUDIO IN | Connects to a Super Audio CD or CD player, etc.
(page 14, 15). |
| | Red (R) | |

2 SPEAKER section

- | | | |
|--|---|---------------------------------------|
| | + | Connects to front speakers (page 12). |
| | - | |
| | | Connects to subwoofer (page 12). |

Remote commander

You can use the supplied remote RM-AAU011 to operate the amplifier and to control the Sony audio/video components that the remote is assigned to operate (page 29).



Name	Function
[1] AV I/O (on/standby)	Press to turn on or off the Sony audio/video components that the remote is assigned to operate (page 29). If you press I/O ([2]) at the same time, it will turn off the amplifier and other components (SYSTEM STANDBY). Note The function of the AV I/O switch changes automatically each time you press the input buttons ([3]).
[2] TV I/O (on/standby)	Press TV I/O and TV ([13]) at the same time to turn the TV on or off.
I/O (on/standby)	Press to turn the amplifier on or off. To turn off all components, press I/O and AV I/O ([1]) at the same time (SYSTEM STANDBY).
[3] Input buttons	Press one of the buttons to select the component you want to use. When you press any of the input buttons, the amplifier turns on. The buttons are factory assigned to control Sony components as follows. You can change the button assignments following the steps in "Changing button assignments" on page 29.
Button	Assigned Sony component
VIDEO 1	VCR (VTR mode 3)
VIDEO 2	VCR (VTR mode 2)
DVD	DVD player
SA-CD/CD	Super Audio CD/CD player
[4] KEY CONTROL #/b	Press to adjust the pitch of a music (page 25).
[5] SUB WOOFER	Press to adjust the subwoofer level (page 21).
[6] D.B.F.B.	Press to activate the Dynamic Bass Feedback (D.B.F.B.) function (page 22).

Name	Function
[7] D.SKIP	Press to skip disc of the CD player or DVD player (multi-disc changer only).
[8] DVD MENU	Press to display the menu of the DVD player on the TV screen. Then, use the control buttons to perform menu operations.
[9] ENTER	Press to enter the value after selecting a channel, disc or track using the numeric buttons.
[10] MUTING	Press to mute the sound (page 18).
[11] TV VOL +^{a)}/-	Press TV VOL +/- and TV ([13]) at the same time to adjust the TV volume level.
MASTER VOL +^{a)}/-	Press to adjust the volume level of all speakers at the same time.
[12] <</>>	Press to skip tracks of the CD player or DVD player.
REPLAY <- / ADVANCE >-	Press to replay the previous scene or fast forward the current scene of the VCR or DVD player.
<</>>	Press to <ul style="list-style-type: none"> - search tracks in the forward/backward direction of the DVD player. - fast forward/rewind of the VCR, CD player, MD deck, or tape deck.
▷^{a)}	Press to start playback of the VCR, CD player or DVD player.
 	Press to pause playback of the VCR, CD player or DVD player.
■	Press to stop playback of the VCR, CD player or DVD player.
TV CH +/-	Press TV CH +/- and TV ([13]) at the same time to select preset TV channels.
[13] TV	Press TV and the button you want at the same time to activate the buttons with orange printing.

Name	Function
[14] MENU	Press to display the menus of the VCR, DVD player, or satellite tuner on the TV screen. Then, use the control buttons to perform menu operations.
[15] RETURN/ EXIT ↺	Press to <ul style="list-style-type: none"> - return to the previous menu. - exit the menu while the menu or on-screen guide of the VCR, DVD player, or satellite tuner is displayed on the TV screen.
[16] Control buttons	After pressing DVD MENU ([8]), or MENU ([14]), press the control button ↑, ↓, ← or → to select the settings. When you press DVD MENU or MENU, press the control button to enter the selection.
[17] DISPLAY	Press to select information displayed on the TV screen of the VCR, satellite tuner, CD player or DVD player.
[18] TOOLS	Press to display options applicable to the entire disc (e.g. disc protection), or multiple items on a list menu (e.g. erasing multiple titles).
[19] -/-	Press -/- and TV ([13]) at the same time to select the channel entry mode, either one or two digits of the TV.
>10/-	Press to select <ul style="list-style-type: none"> - track numbers over 10 of the VCR, satellite tuner or CD player. - channel numbers of the Digital CATV terminal.
CLEAR	Press to <ul style="list-style-type: none"> - clear a mistake when you press the incorrect numeric button. - return to continuous playback, etc. of the satellite tuner or DVD player.

continued —

9GB

Name	Function
20 Numeric buttons (number 5^{a)})	Press to – select track numbers of the CD player or DVD player. Press 0/10 to select track number 10. – select channel numbers of the VCR or satellite tuner. Press the numeric buttons and TV (13) at the same time to select the TV channels.
21 VOCAL SELECT	Press to select the vocal cut parameter when you sing a song (page 24).
22 BALANCE L/R	Press to adjust the front speakers balance level (page 21).
23 KARAOKE	Press to activate the karaoke function.
24 SCORE	Press to show the score after you sing a song (page 25). Note The scoring system will only activate when you press SCORE. If you press SCORE again, it will show the score marks.
25 TV/VIDEO	Press TV/VIDEO and TV (13) at the same time to select the input signal (TV input or video input).
26 SLEEP	Press to activate the Sleep Timer function and the duration which the amplifier turns off automatically.

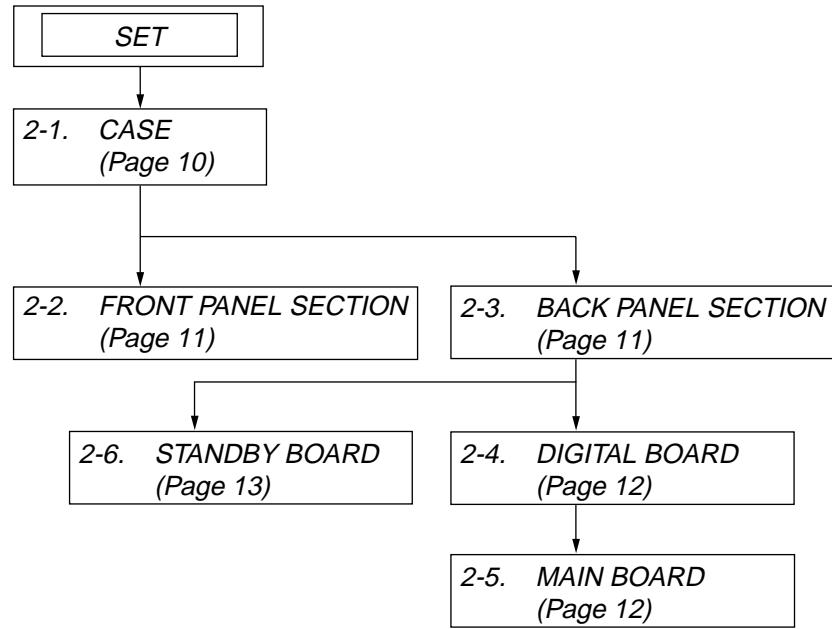
^{a)}The number 5, MASTER VOL +, TV VOL +, and ▷ buttons have tactile dots. Use the tactile dots as references when operating the amplifier.

Notes

- Some functions explained in this section may not work depending on the model.
- The above explanation is intended to serve as an example only. Therefore, depending on the component, the above operation may not be possible or may operate differently than described.

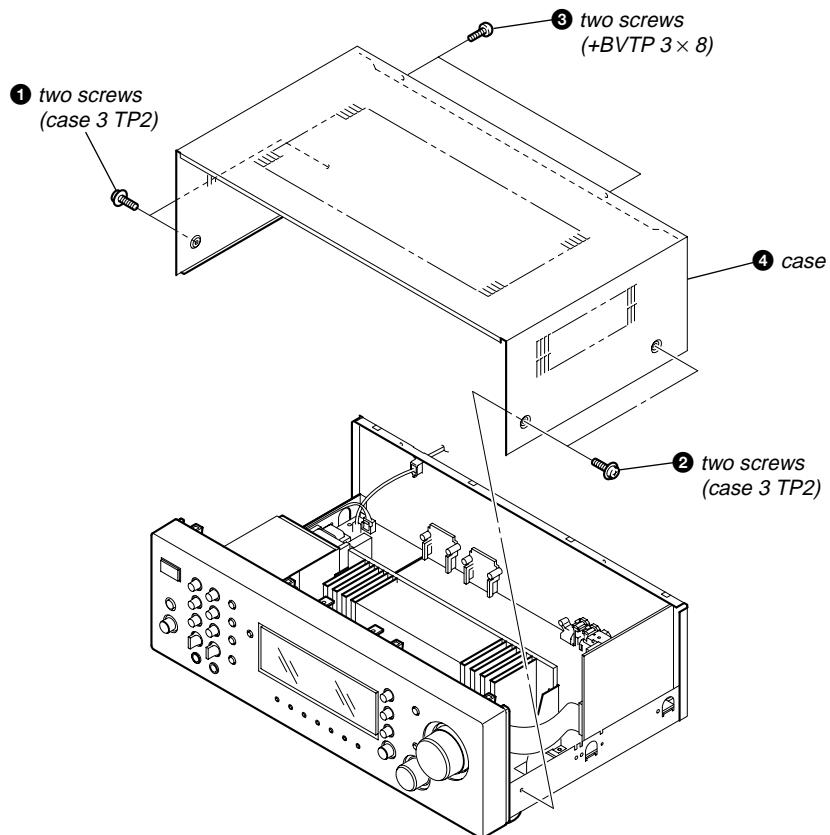
SECTION 2 DISASSEMBLY

Note : This set can be disassemble according to the following sequence.

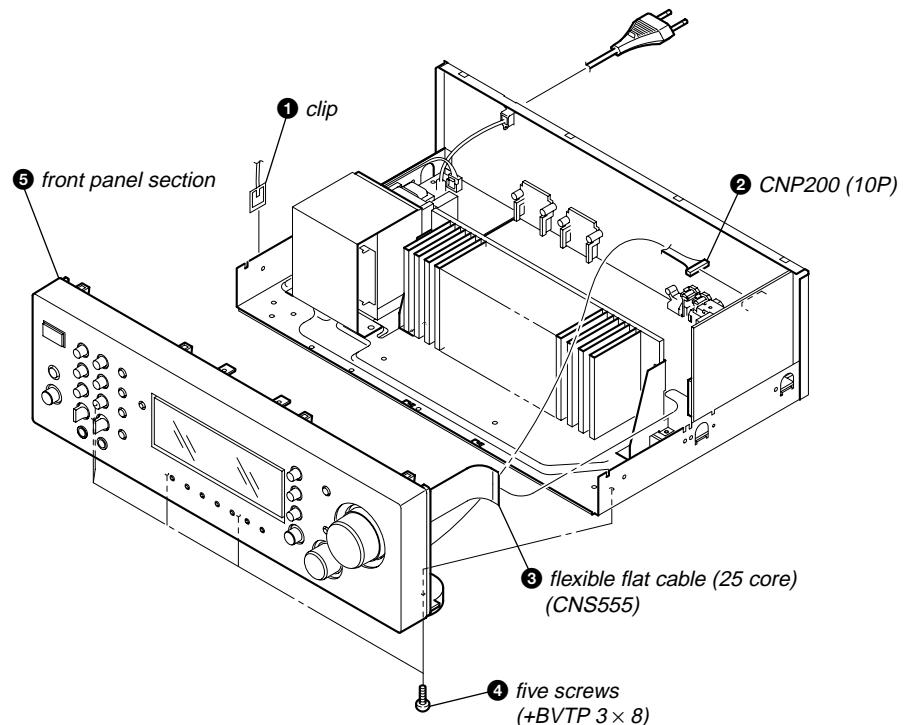


Note : Follow the disassembly procedure in the numerical order given.

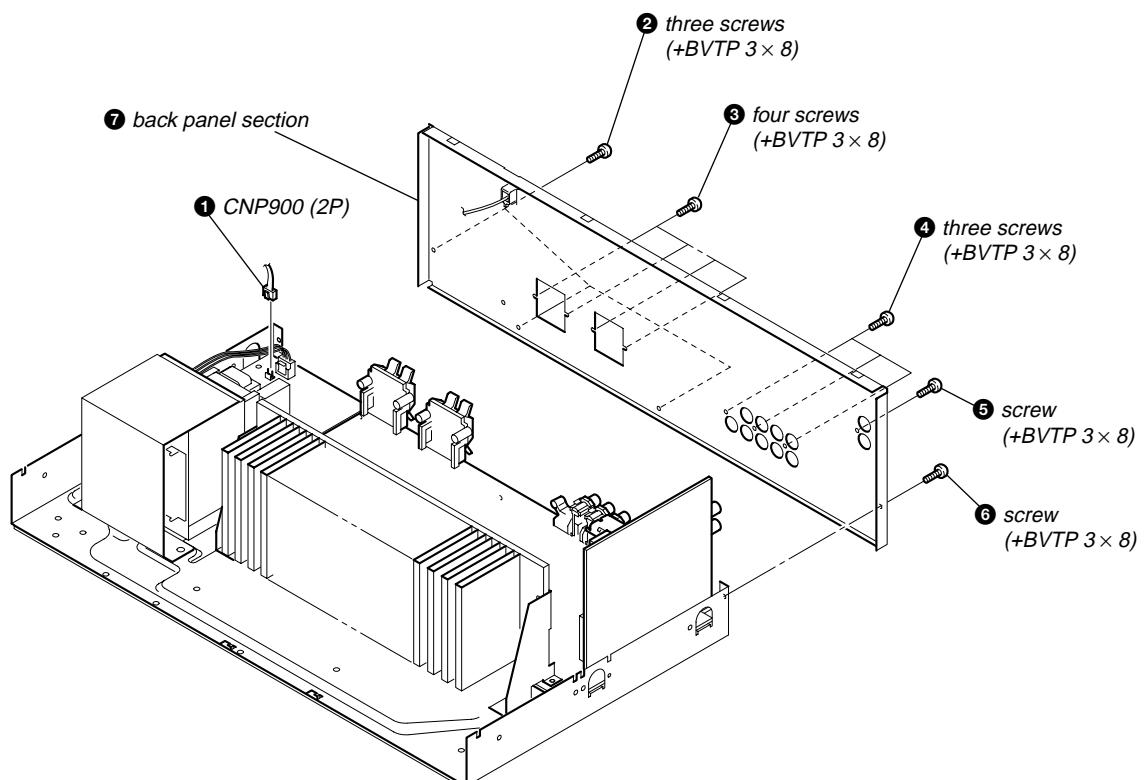
2-1. CASE

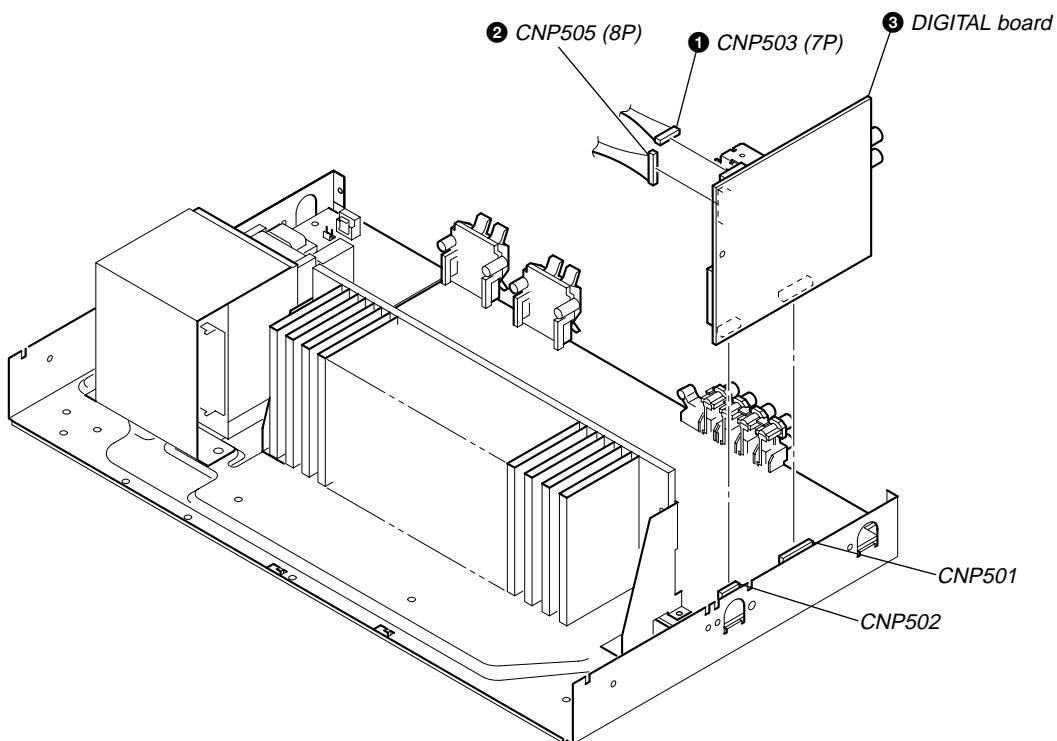
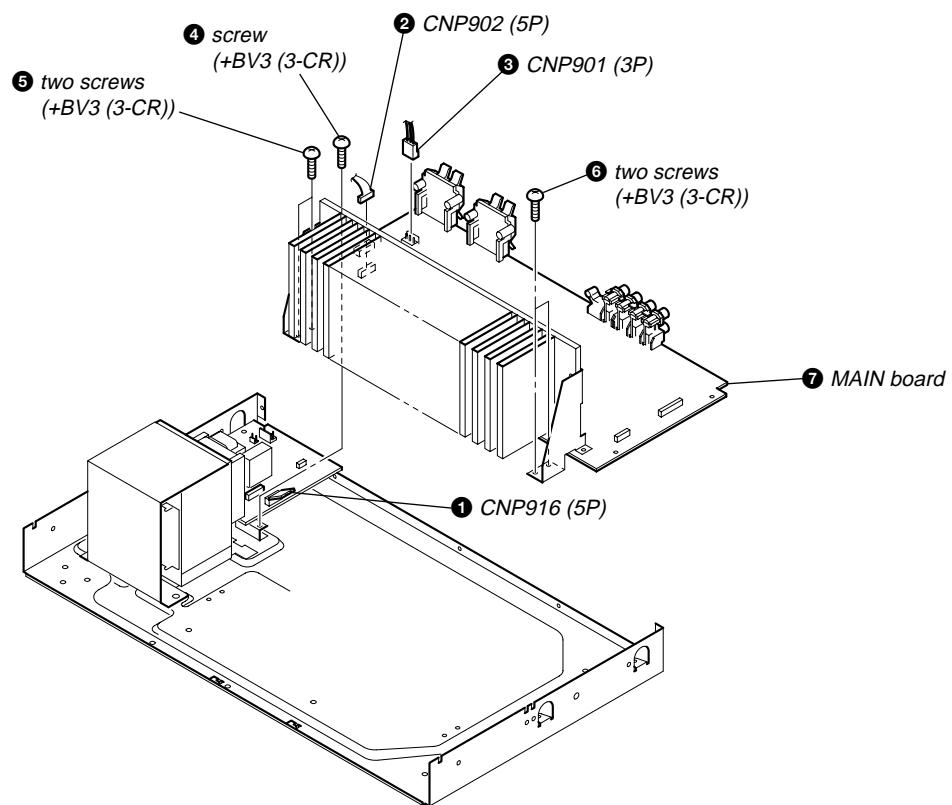


2-2. FRONT PANEL SECTION

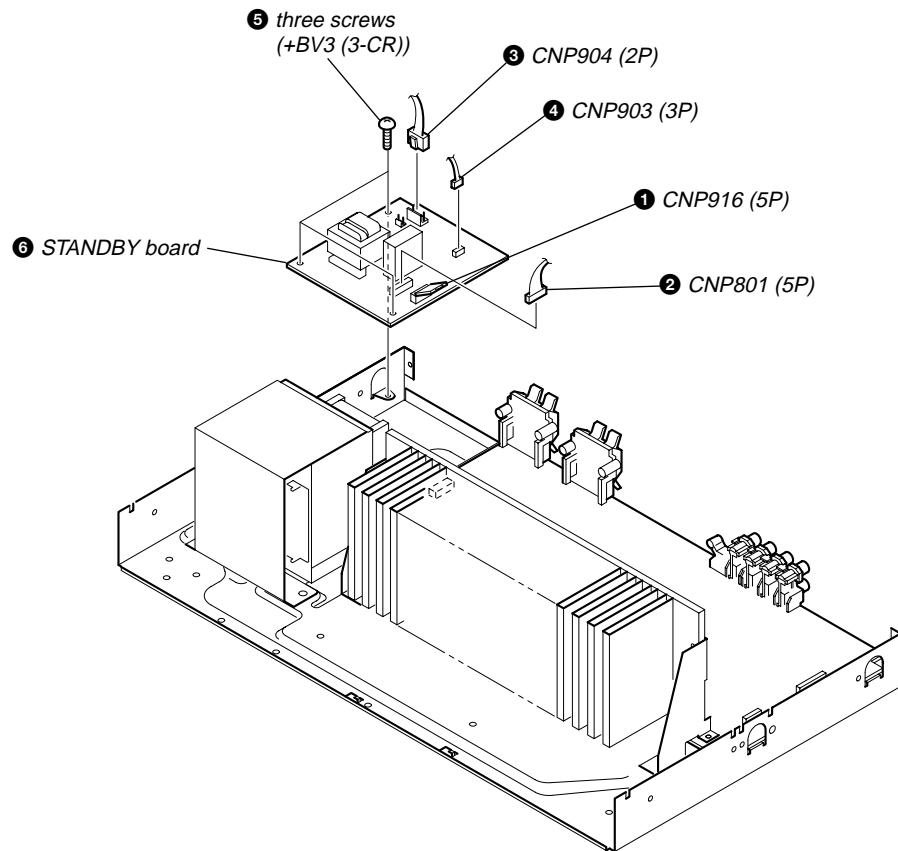


2-3. BACK PANEL SECTION



2-4. DIGITAL BOARD**2-5. MAIN BOARD**

2-6. STANDBY BOARD



SECTION 3 TEST MODE

VACUUM FLUORESCENT DISPLAY TEST MODE

* All fluorescent segments are tested.

When this test is activated, all segments light on at the same time, then each segment lights on one after another.

* Procedure:

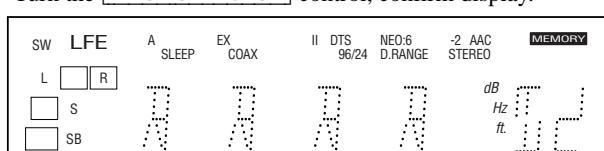
While depressing the [VOCAL SELECT] and the [BALANCE R] buttons simultaneously, press the [I/O] button to turn on the main power.

1. ALL segments light on.



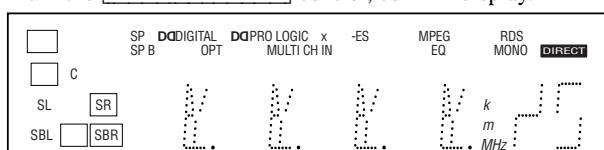
[KARAOKE ON/OFF], [VOCAL SELECT], [SCORE] and [D.B.F.B.] LEDs light on.

2. Turn the [INPUT SELECTOR] control, confirm display.



[KARAOKE ON/OFF] and [SCORE] LEDs light on.

3. Turn the [INPUT SELECTOR] control, confirm display.



[VOCAL SELECT] and [D.B.F.B.] LEDs light on.

4. Turn the [INPUT SELECTOR] control, all segments and all LEDs light off.

SOFTWARE VERSION DISPLAY MODE

* The software version is displayed.

* Procedure:

While depressing the [ECHO DELAY +] and the [BALANCE R] buttons simultaneously, press the [I/O] button to turn on the main power.

The model name, destination and the software version are displayed for a moment.

KEY CHECK MODE

* Button check

* Procedure:

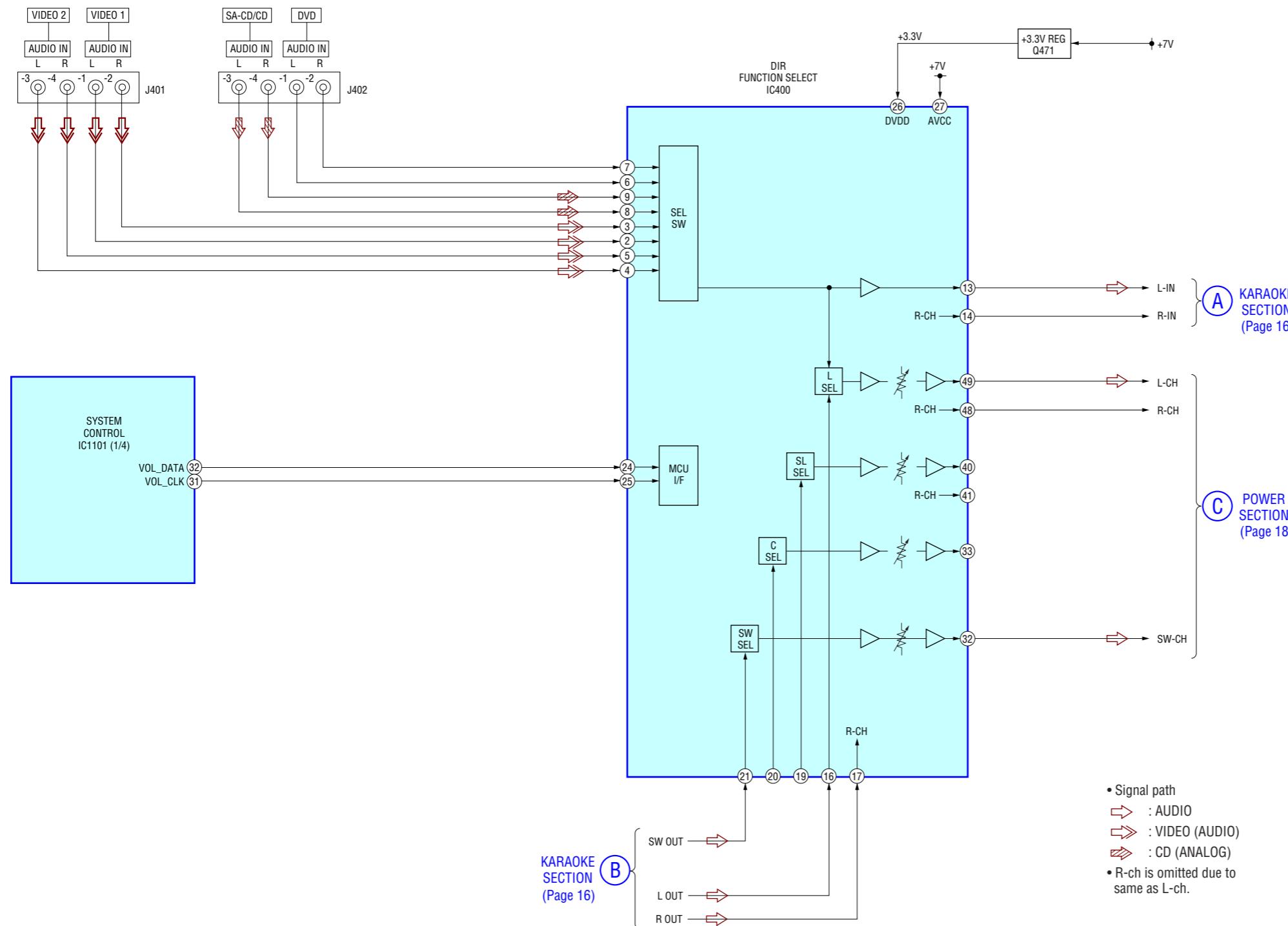
While depressing the [ECHO DELAY -] and the [BALANCE R] buttons simultaneously, press the [I/O] button to turn on the main power.

Either the message "REST 15" appears.

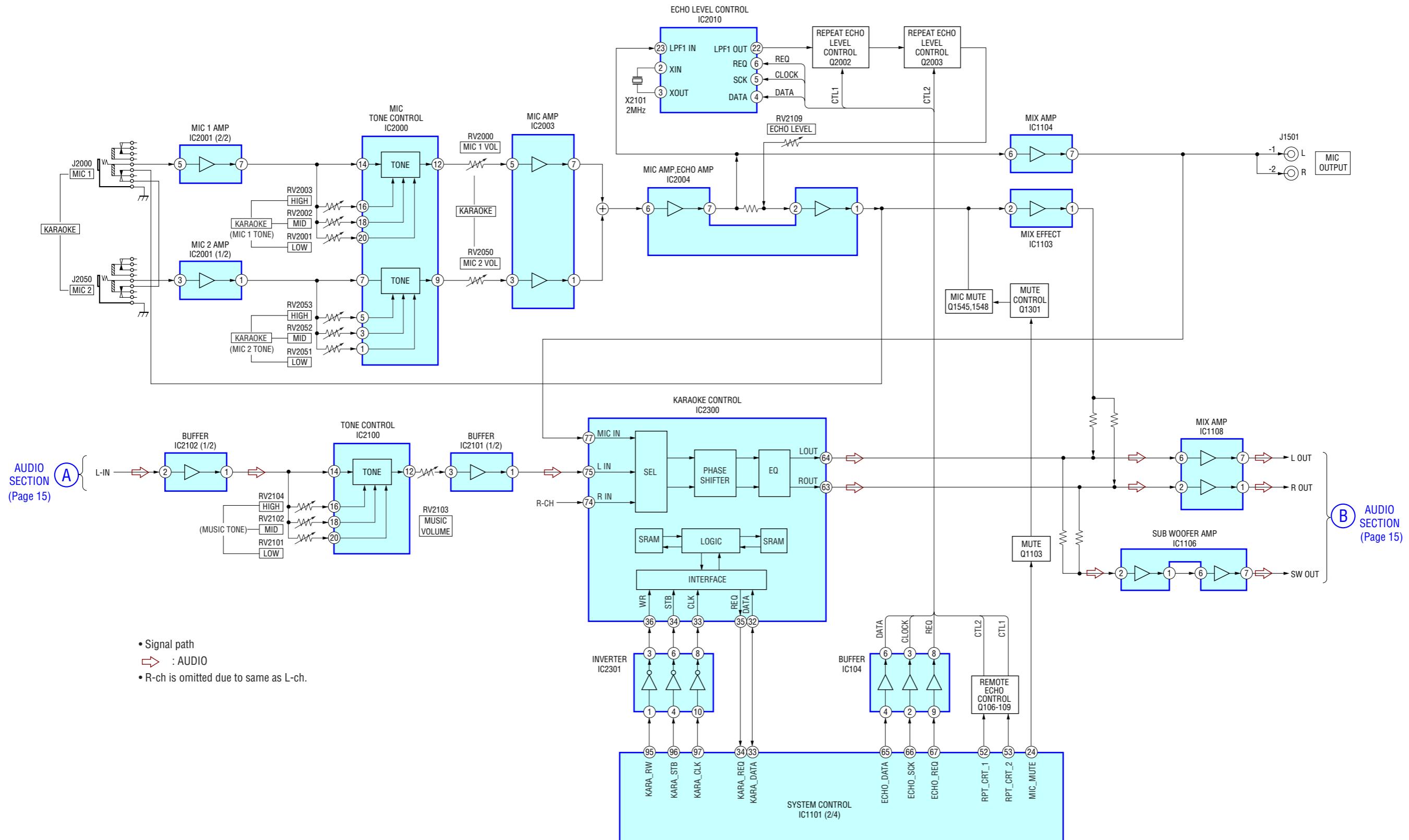
Every pressing of any button other than the [I/O] counts down the buttons. The buttons which are already counted once are not counted again. When all buttons are pressed "REST 00" appears.

SECTION 4 DIAGRAMS

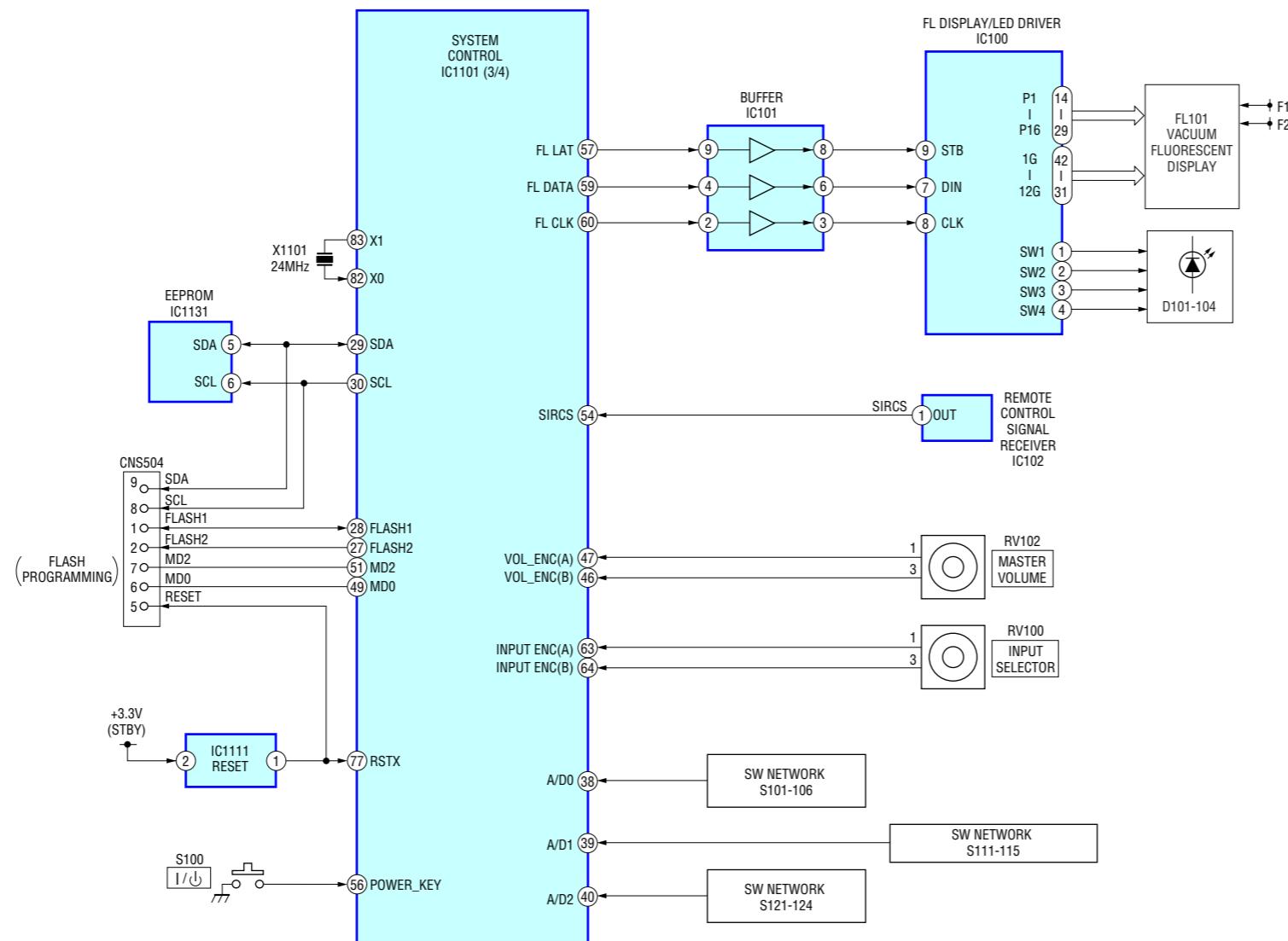
4-1. BLOCK DIAGRAM — AUDIO SECTION —



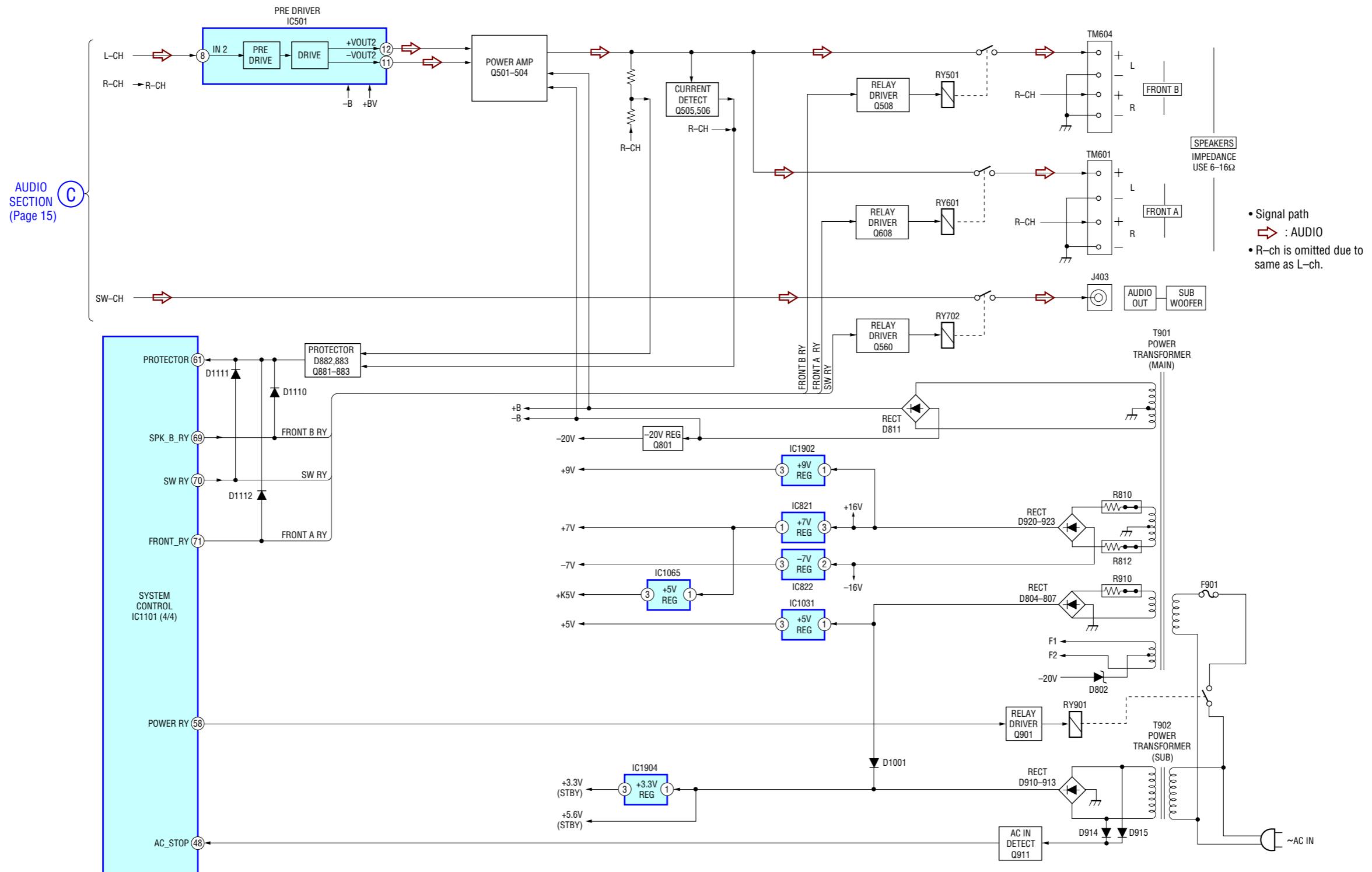
4-2. BLOCK DIAGRAM — KARAOKE SECTION —



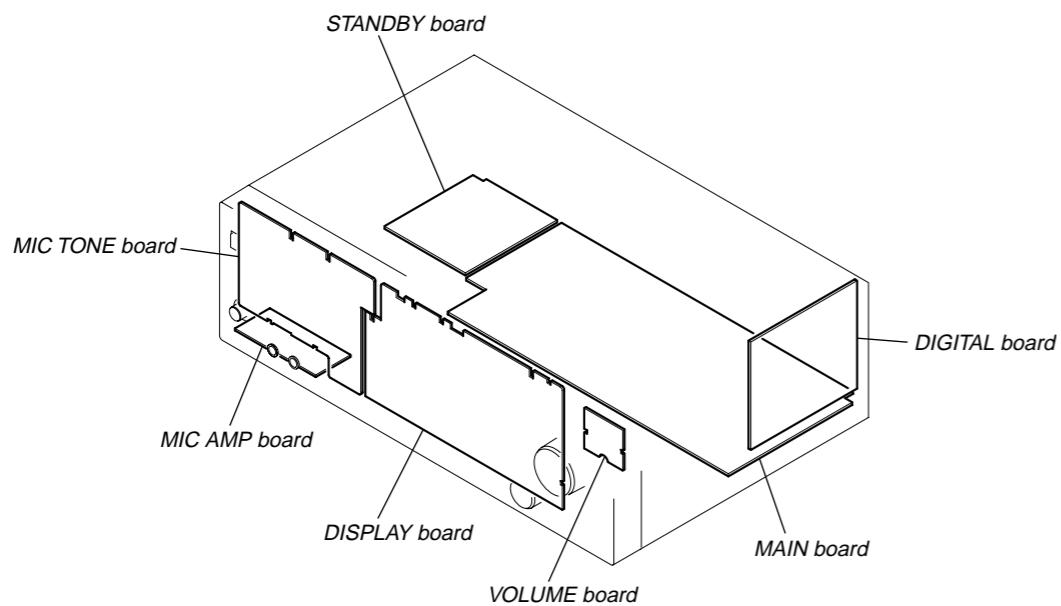
4-3. BLOCK DIAGRAM — DISPLAY SECTION —



4-4. BLOCK DIAGRAM — POWER SECTION —



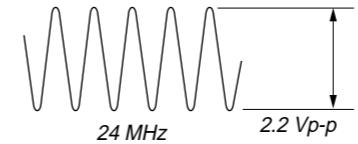
• Circuit Boards Location



• Waveforms

— DIGITAL Board (2/2) —

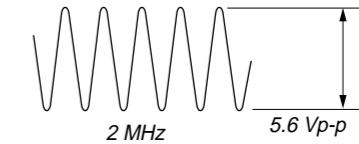
① IC1101 ⑧ (X1)



1 V/DIV, 50 nsec/DIV

— MIC TONE Board —

① IC2010 ③ (XOUT)



2 V/DIV, 0.5 μsec/DIV

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

for schematic diagram:

- All capacitors are in μF unless otherwise noted. (p: pF)
50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
- \triangle : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

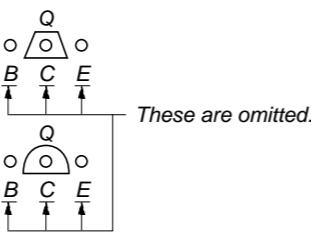
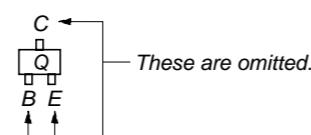
Note: The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

- : B+ Line.
- : B- Line.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : DVD
- Voltages are taken with a VOM (Input impedance $10\text{ M}\Omega$).
Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 : AUDIO
 : VIDEO (AUDIO)
 : CD (ANALOG)

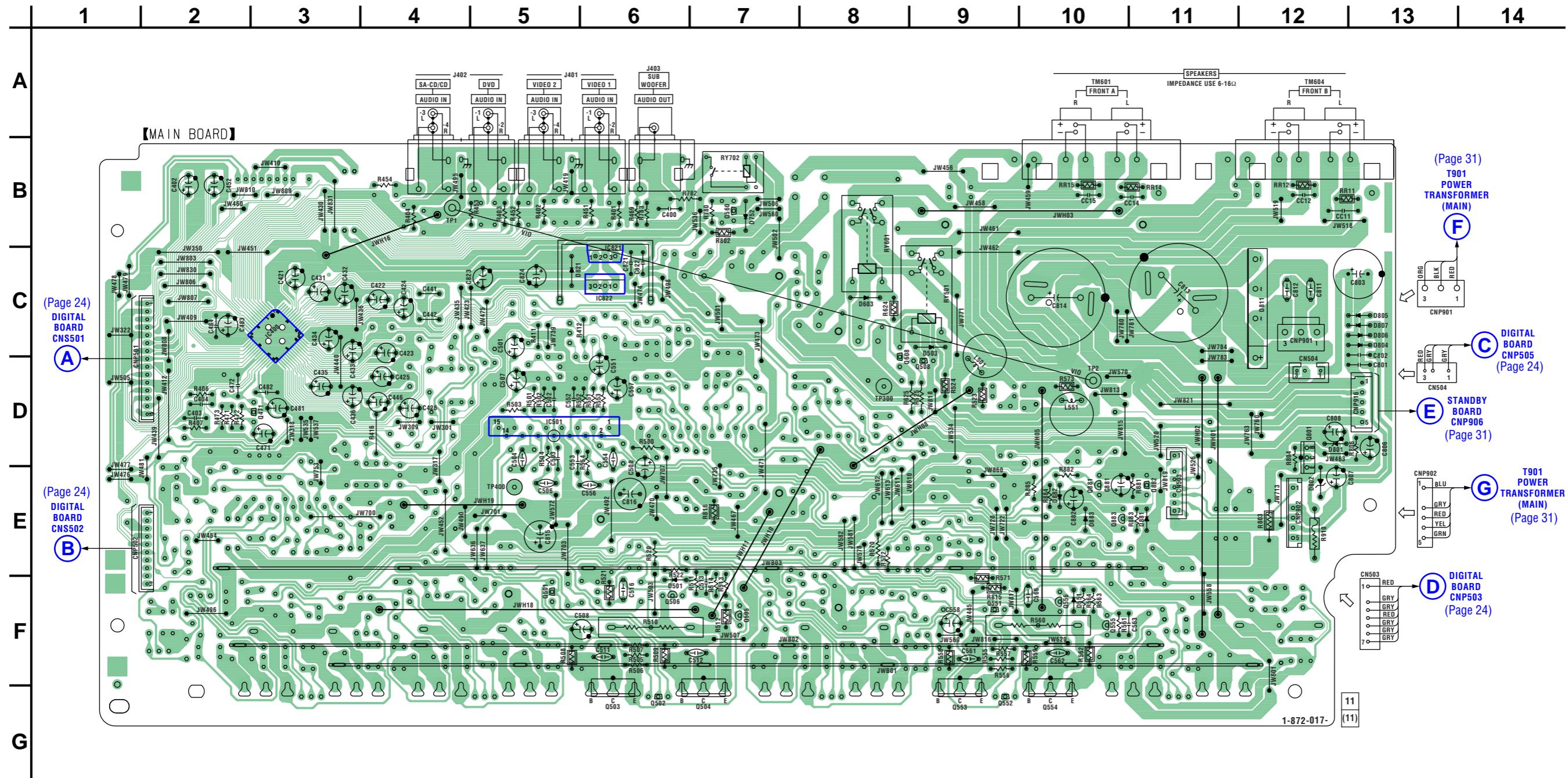
for printed wiring boards:

- : parts extracted from the component side.
- \triangle : internal component.
- : Pattern from the side which enables seeing.

Caution:
Pattern face side: Parts on the pattern face side seen from the (Side B) pattern face are indicated.
Parts face side: Parts on the parts face side seen from the (Side A) parts face are indicated.



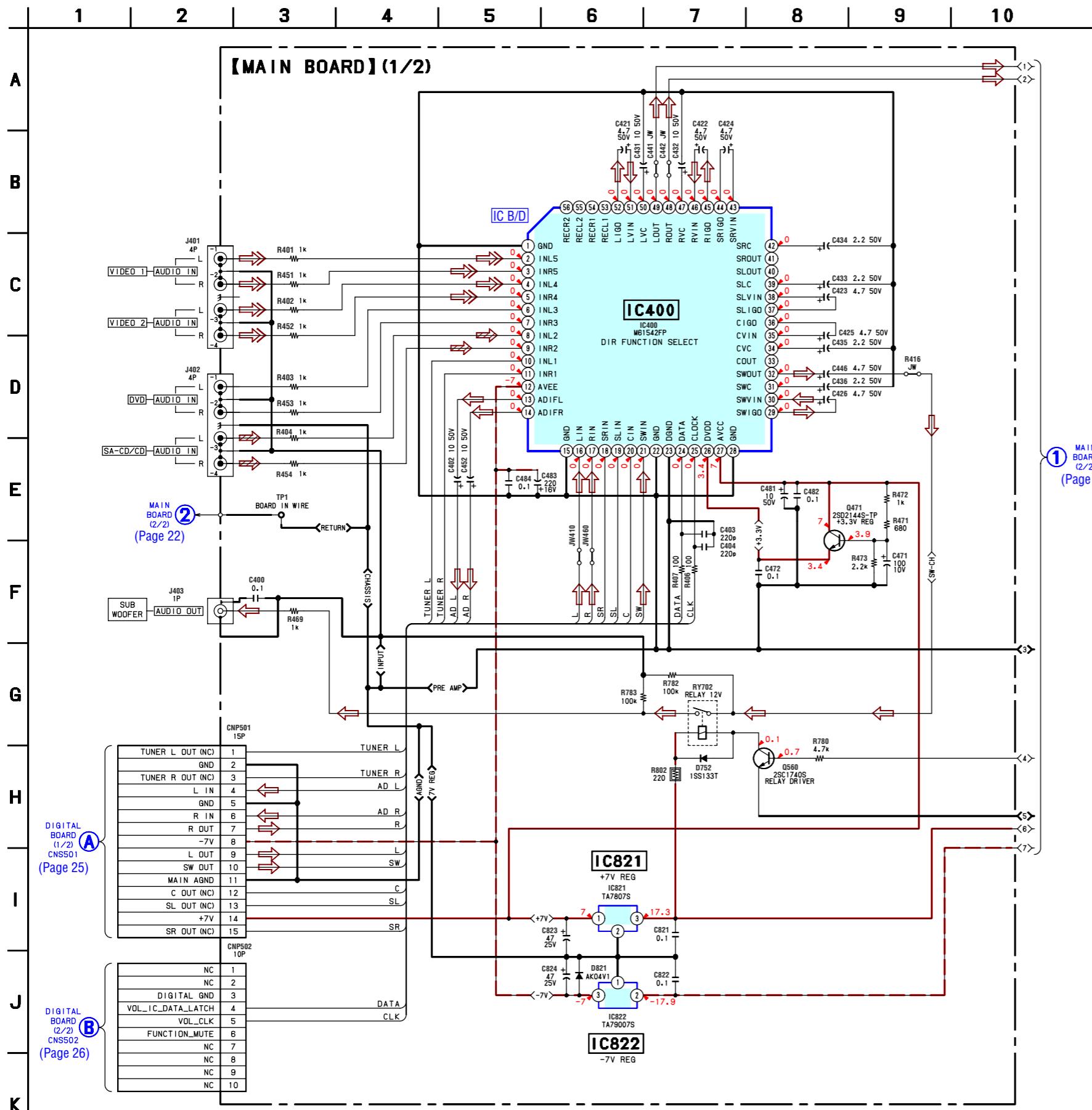
4-5. PRINTED WIRING BOARD — MAIN SECTION — • Refer to page 19 for Circuit Boards Location.  : Uses unleaded solder.



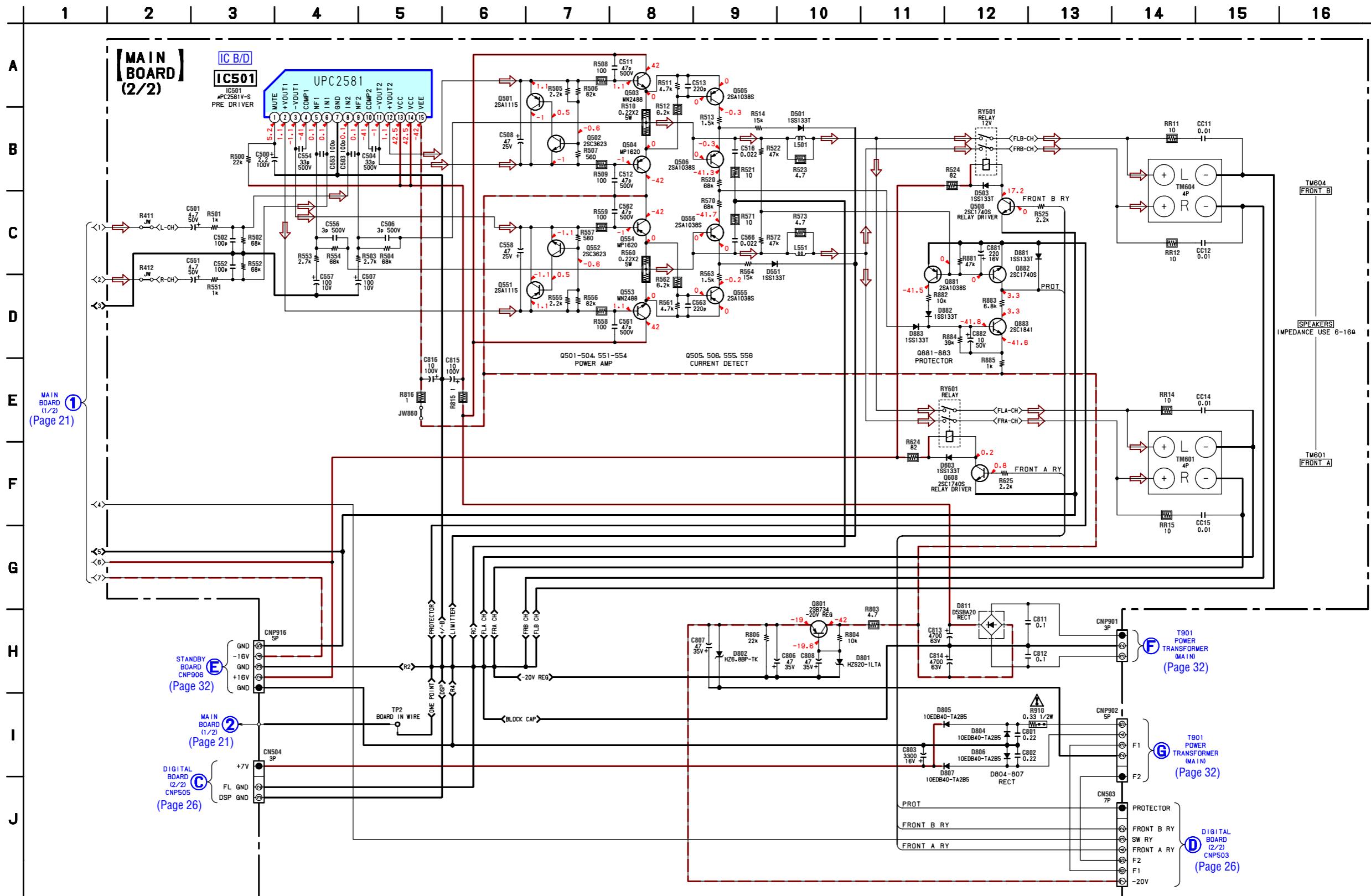
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D501	F-6	D882	E-10	Q506	F-6
D503	C-9	D883	E-10	Q508	D-9
D551	F-10			Q551	F-9
D603	C-8	IC400	C-3	Q552	G-9
D752	B-7	IC501	D-5	Q553	G-9
D801	D-12	IC821	C-6	Q554	G-10
D802	E-12	IC822	C-6	Q555	F-10
D804	C-13			Q556	F-10
D805	C-13	Q471	D-3	Q560	B-7
D806	C-13	Q501	F-5	Q608	D-8
D807	C-13	Q502	G-6	Q801	D-12
D811	C-12	Q503	G-6	Q881	E-10
D821	C-5	Q504	G-7	Q882	E-11
D881	E-11	Q505	F-7	Q883	E-10

4-6. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) • Refer to page 33 for IC Block Diagram.



4-7. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 33 for IC Block Diagram

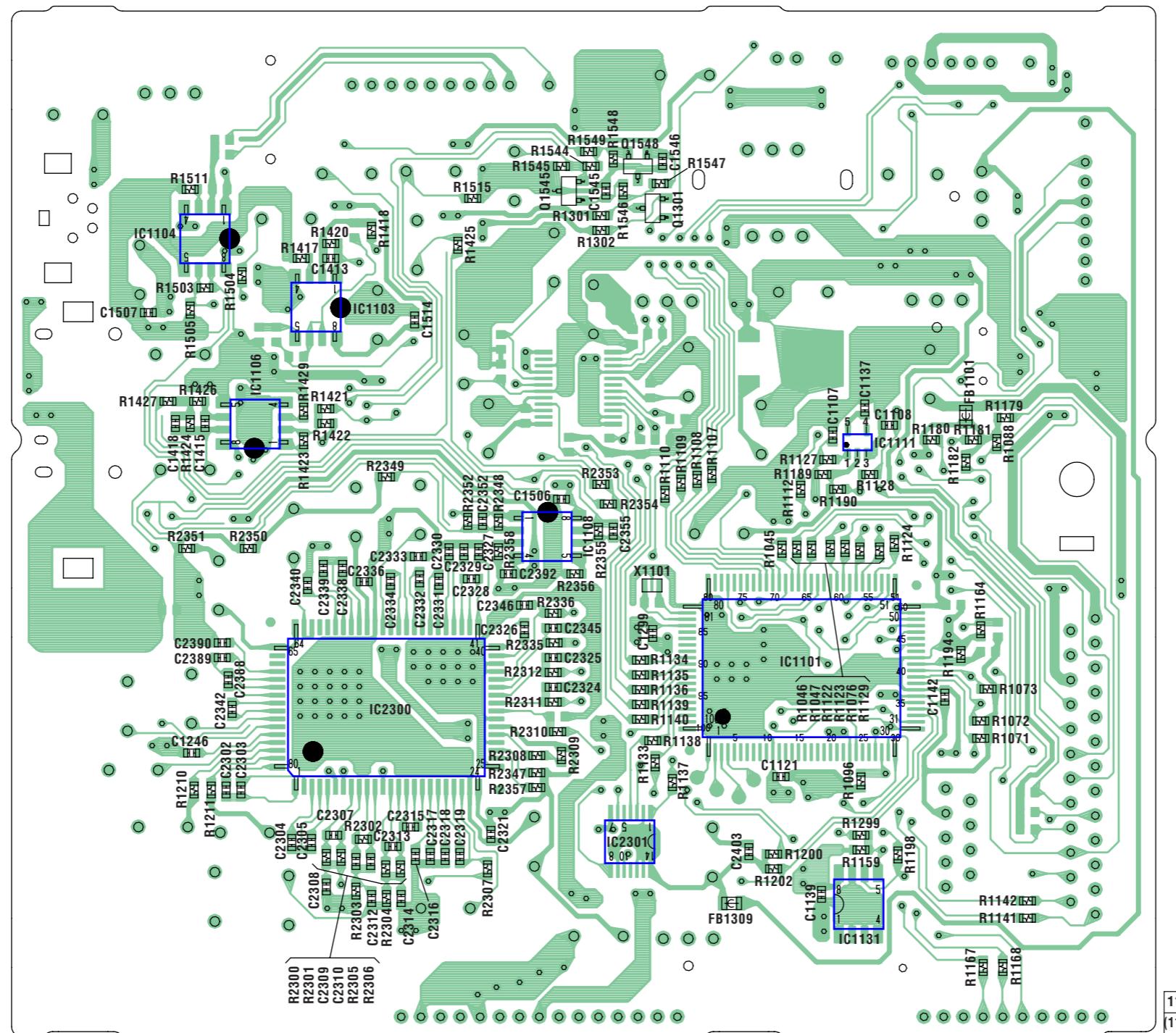


4-8. PRINTED WIRING BOARD — DIGITAL SECTION (1/2) — • Refer to page 19 for Circuit Boards Location.  : Uses unleaded solder.

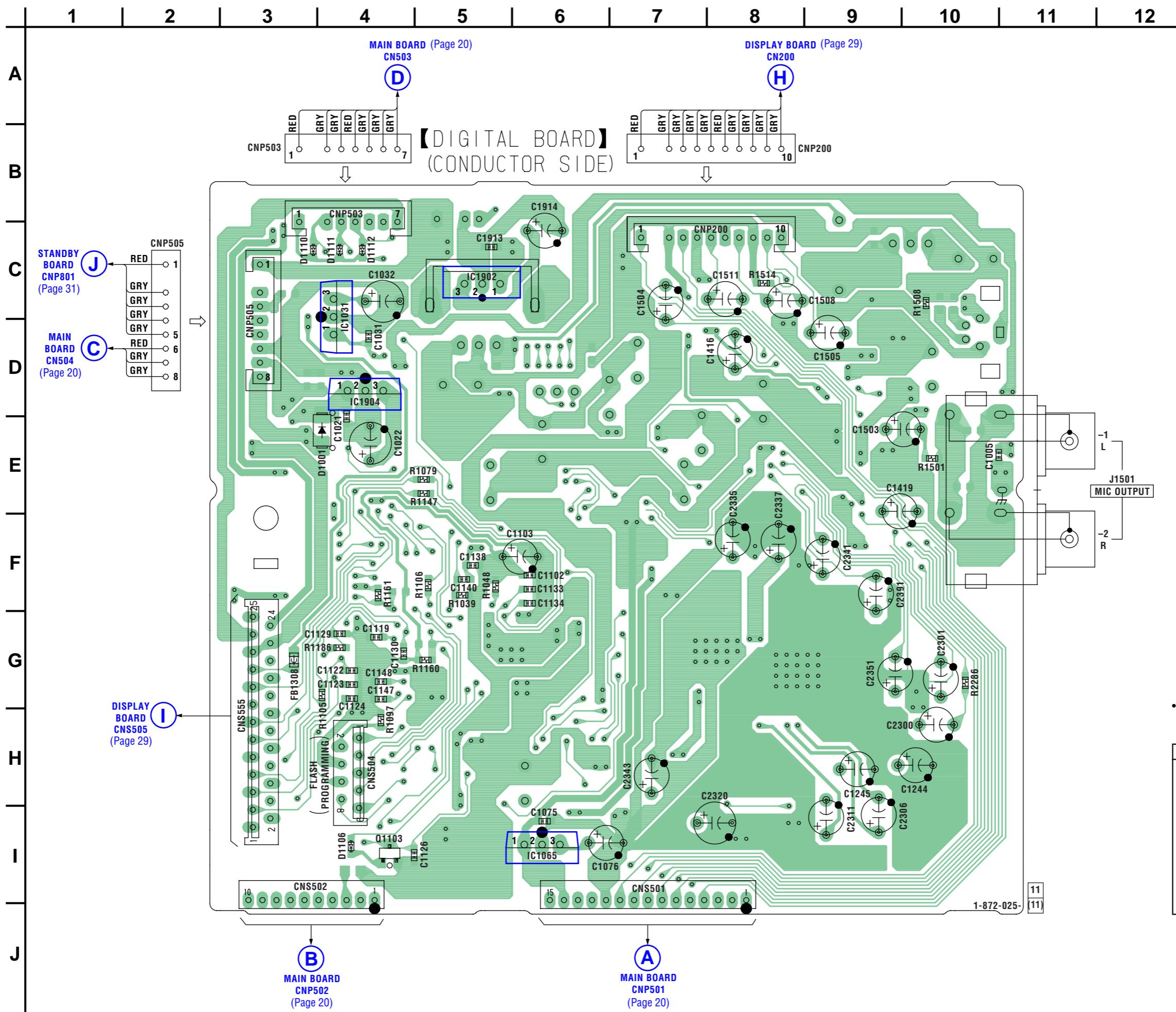
 : Uses unleaded solder.

12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |

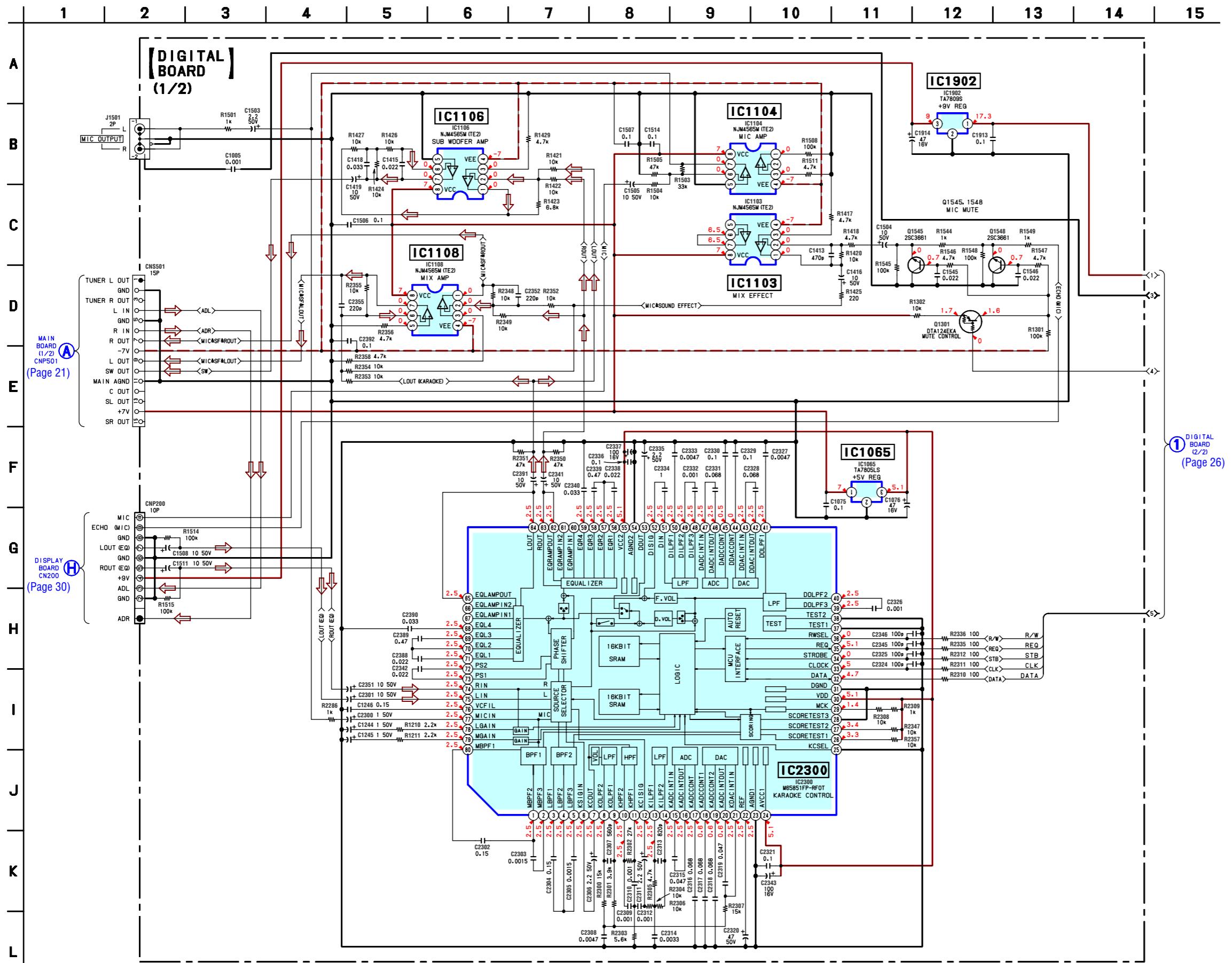
【DIGITAL BOARD】(COMPONENT SIDE)



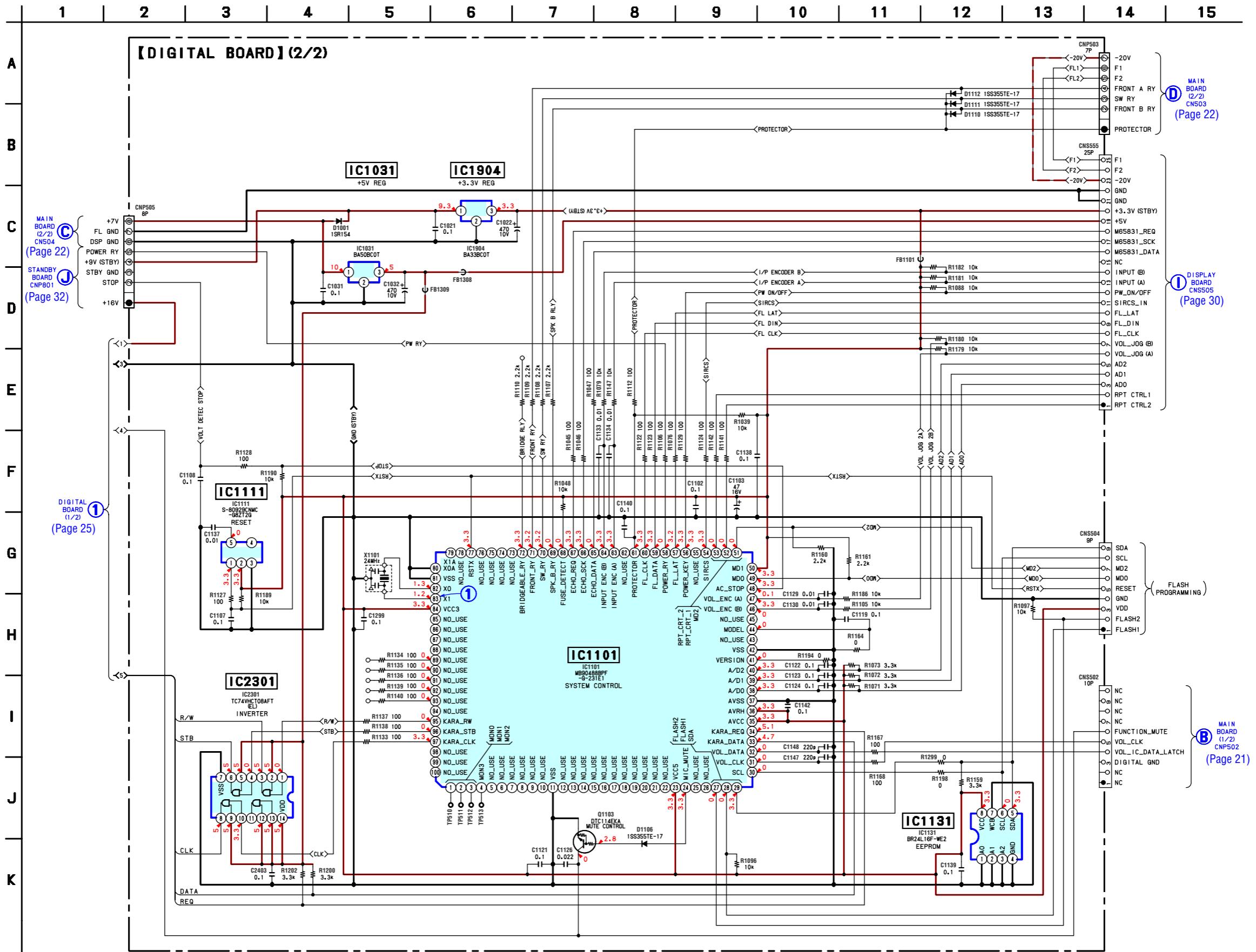
• Semiconductor Location (Component Side)	
Ref. No.	Location
IC1101	G-5
IC1103	D-8
IC1104	D-9
IC1106	E-9
IC1108	F-7
IC1111	E-4
IC1131	I-5
IC2300	G-8
IC2301	H-6
Q1301	D-6
Q1545	C-7
Q1548	C-6

4-9. PRINTED WIRING BOARD — DIGITAL SECTION (2/2) — • Refer to page 19 for Circuit Boards Location.  : Uses unleaded solder.

4-10. SCHEMATIC DIAGRAM — DIGITAL SECTION (1/2) —

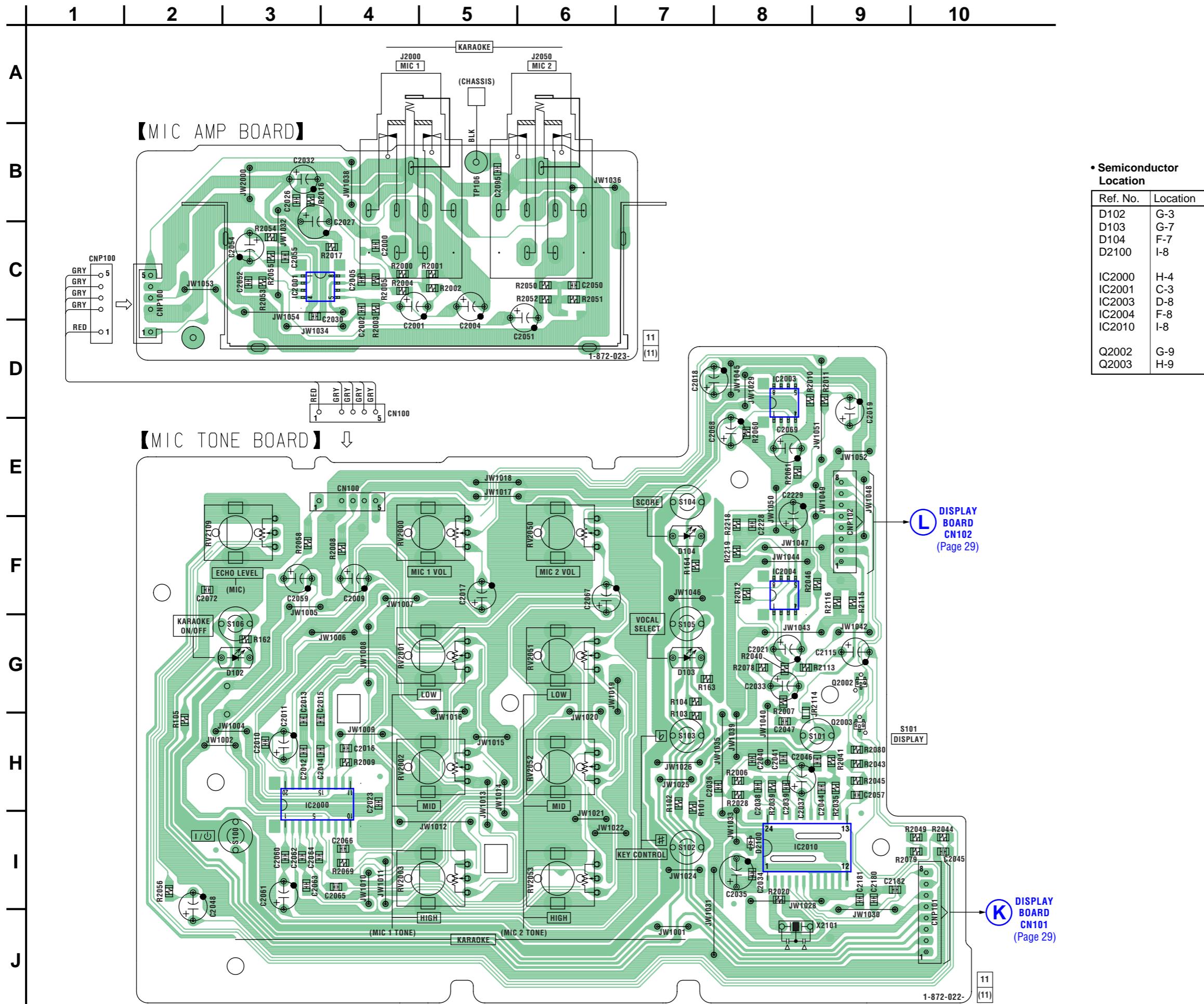


4-11. SCHEMATIC DIAGRAM — DIGITAL SECTION (2/2) — • Refer to page 19 for Waveform and page 35 for IC Pin Description.

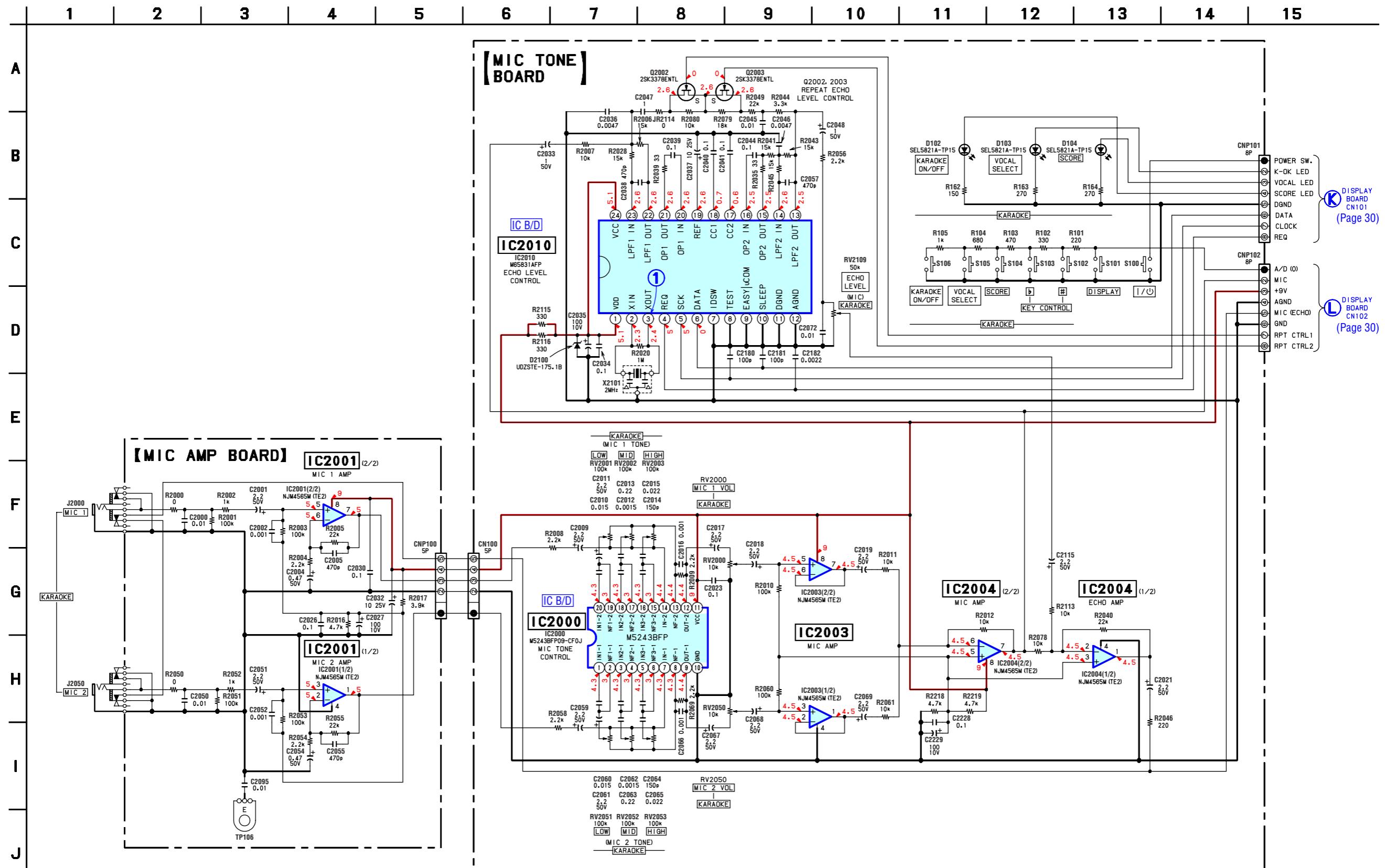


4-12. PRINTED WIRING BOARDS — MIC SECTION — • Refer to page 19 for Circuit Boards Location. : Uses unleaded solder

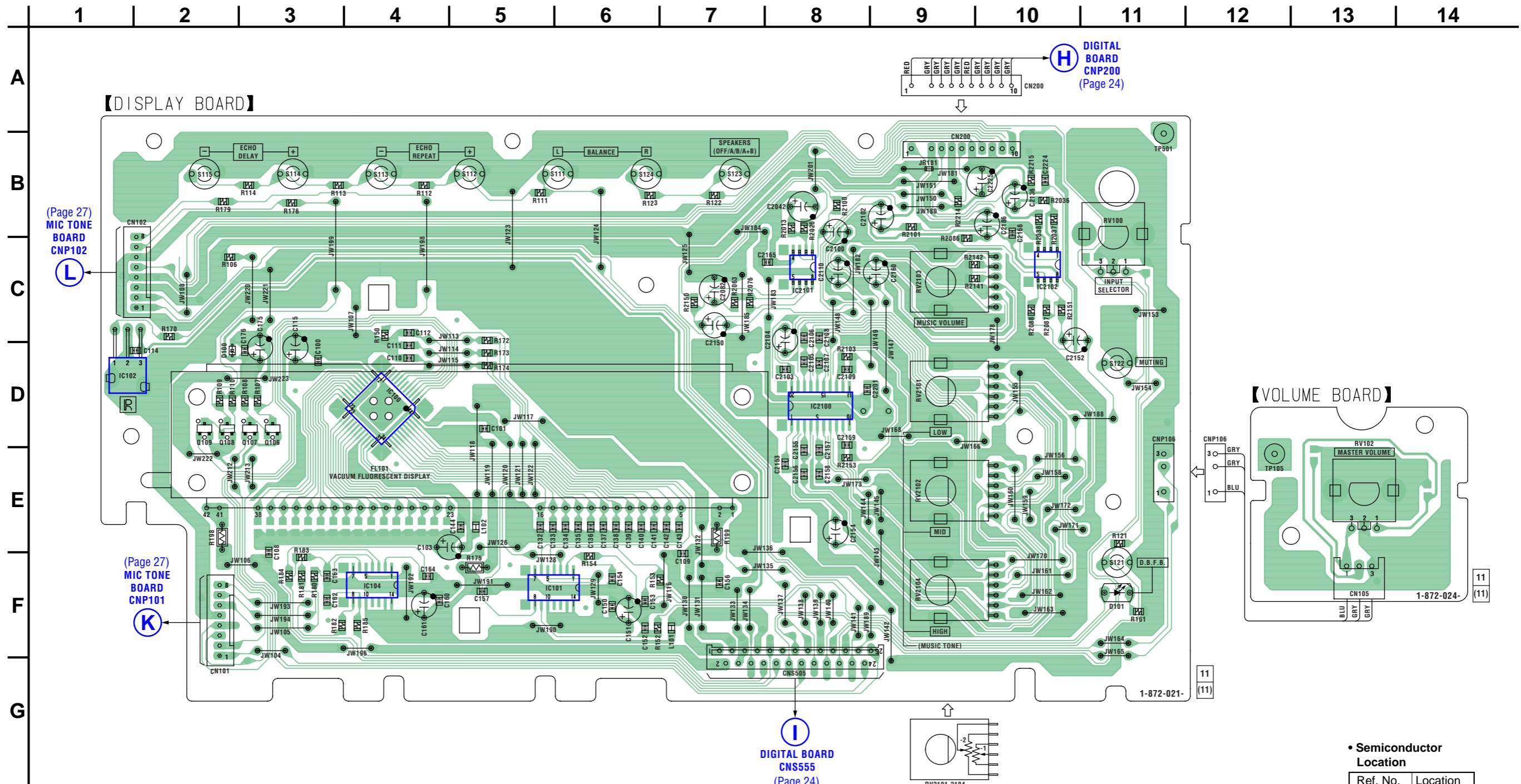
 : Uses unleaded solder



4-13. SCHEMATIC DIAGRAM — MIC SECTION — • Refer to page 19 for Waveform and page 34 for IC Block Diagrams



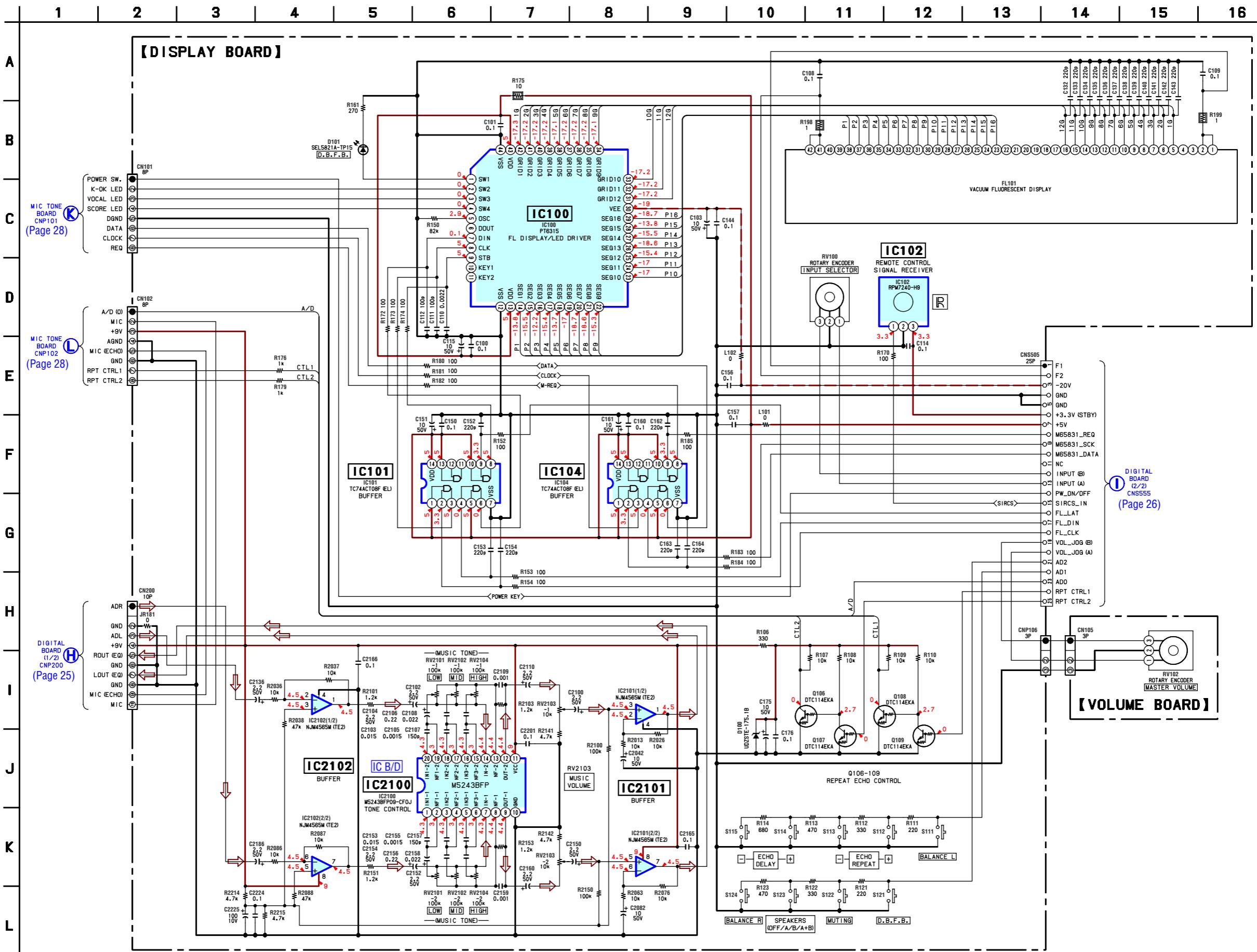
4-14. PRINTED WIRING BOARDS — DISPLAY SECTION — • Refer to page 19 for Circuit Boards Location.  : Uses unleaded solder.



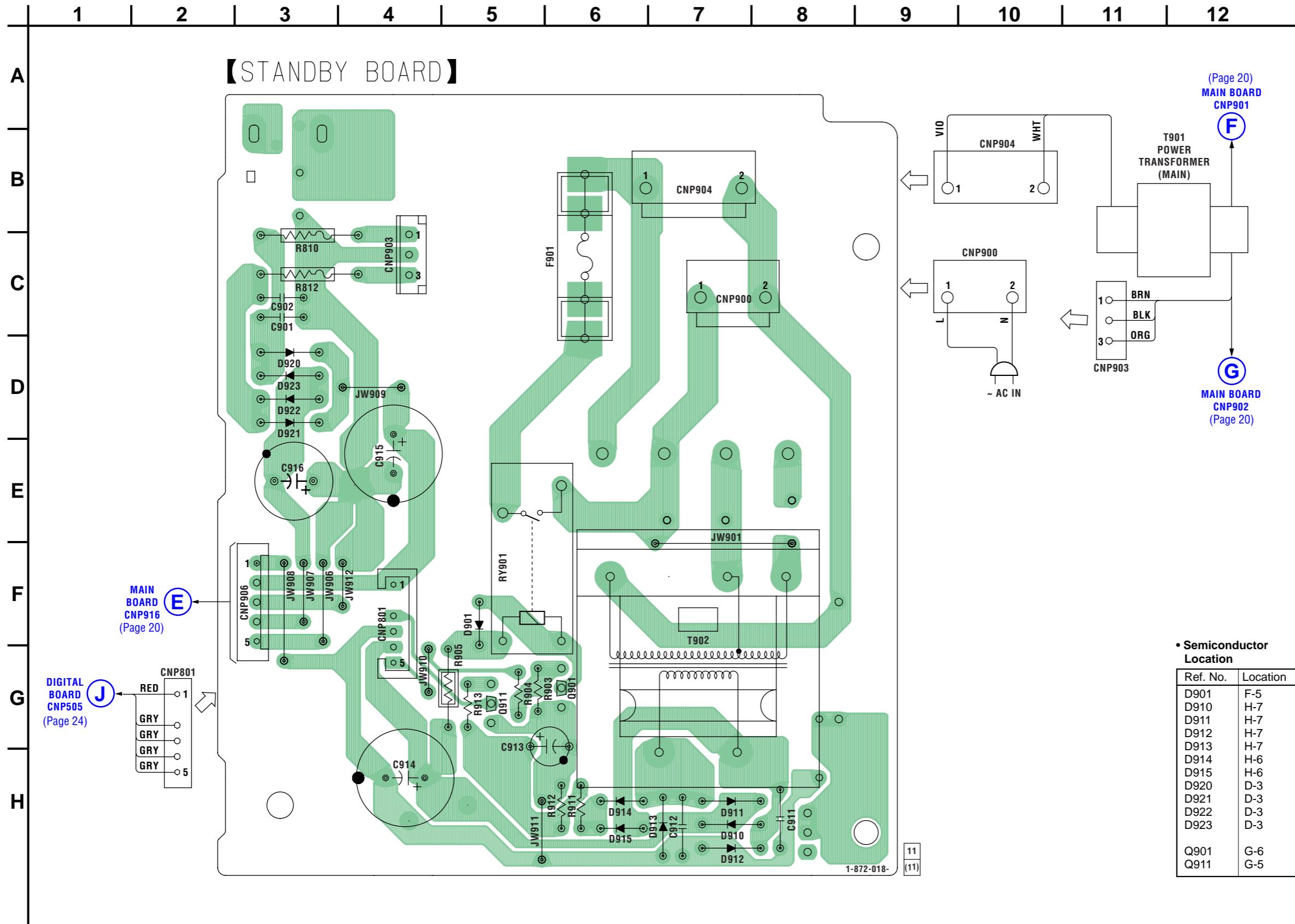
• Semiconductor Location

Ref. No.	Location
D100	D-2
D101	F-11
IC100	D-4
IC101	F-6
IC102	D-1
IC104	F-4
IC2100	D-8
IC2101	C-8
IC2102	C-10
Q106	D-3
Q107	D-3
Q108	D-2
Q109	D-2

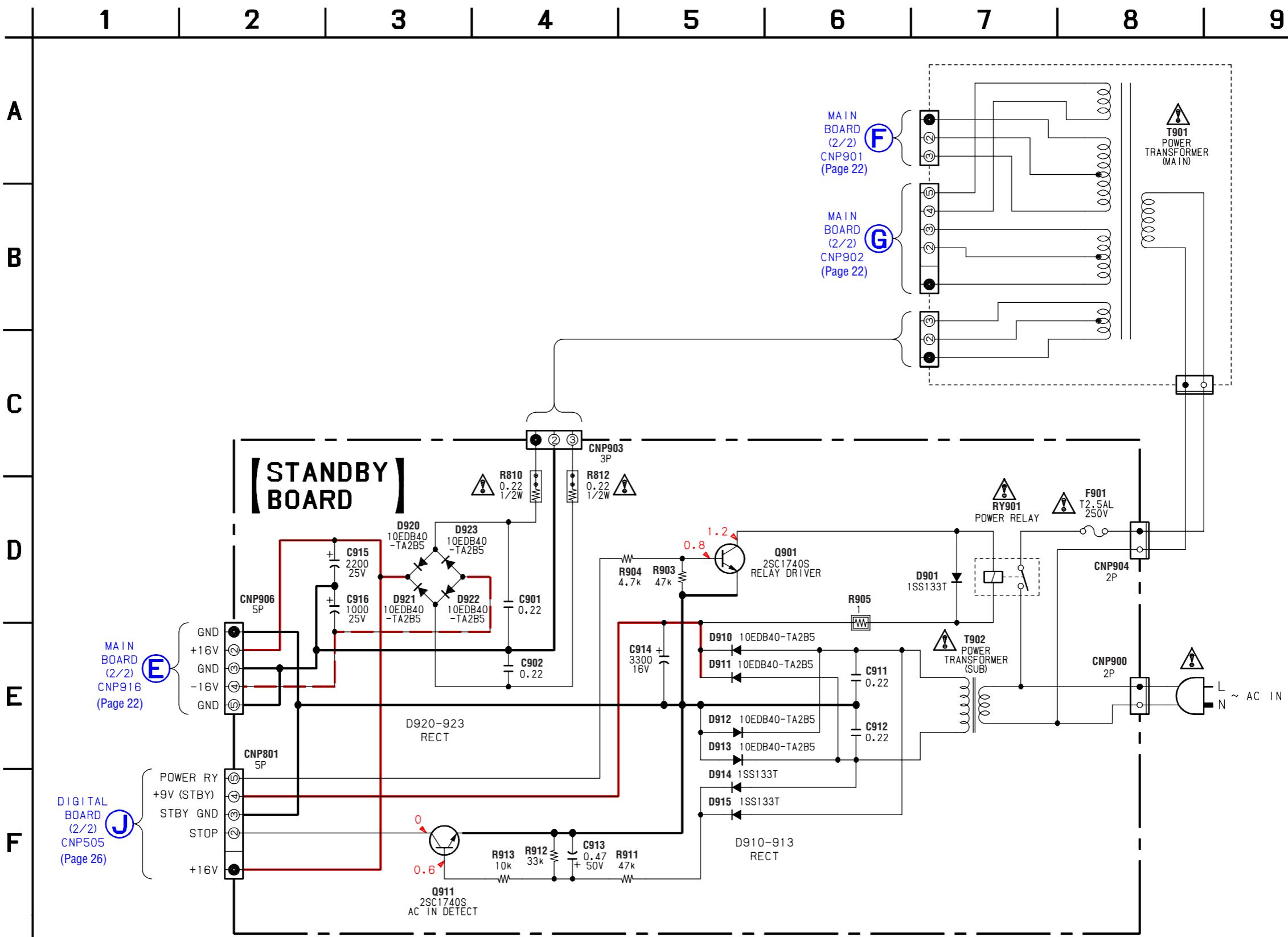
4-15. SCHEMATIC DIAGRAM — DISPLAY SECTION — • Refer to page 34 for IC Block Diagram.



4-16. PRINTED WIRING BOARD — POWER SECTION — • Refer to page 19 for Circuit Boards Location.  : Uses unleaded solder.

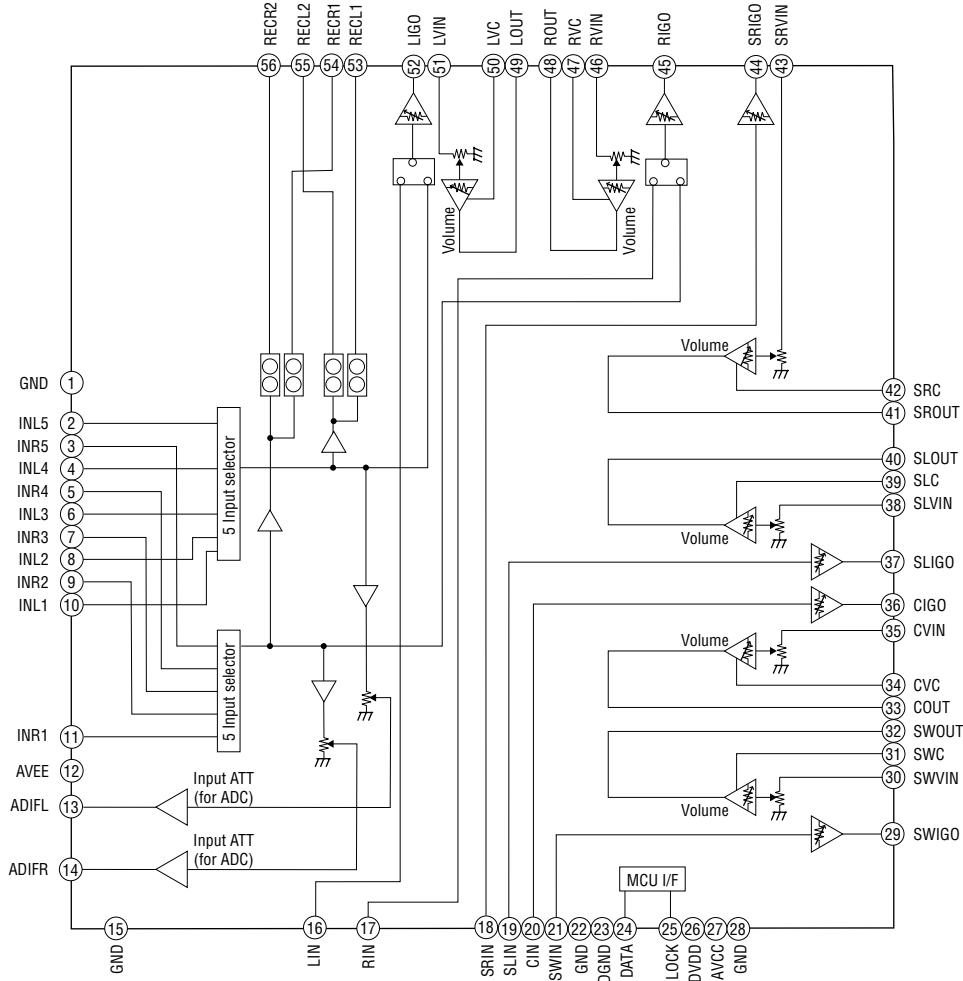


4-17. SCHEMATIC DIAGRAM — POWER SECTION —

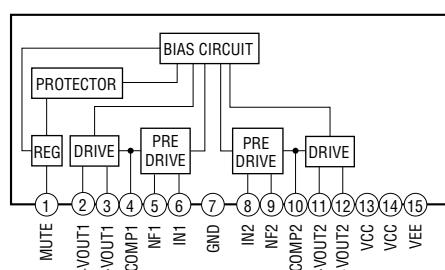


• IC Block Diagrams

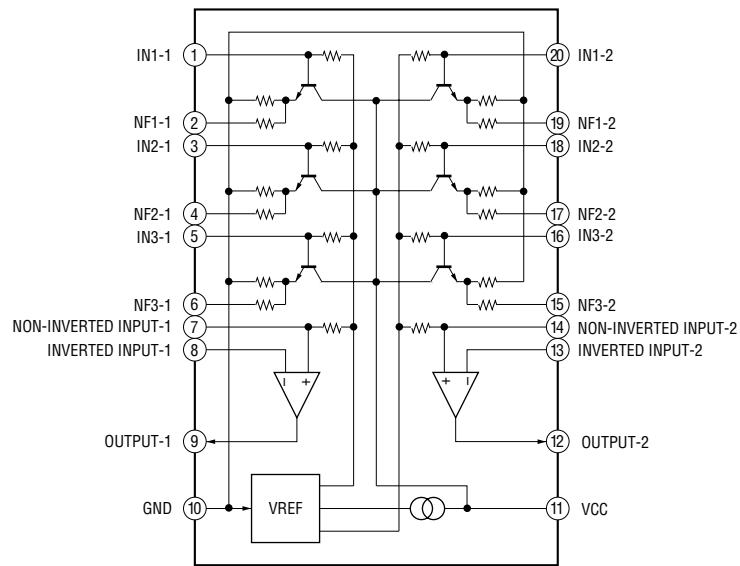
IC400 M61542FP (MAIN BOARD (1/2))



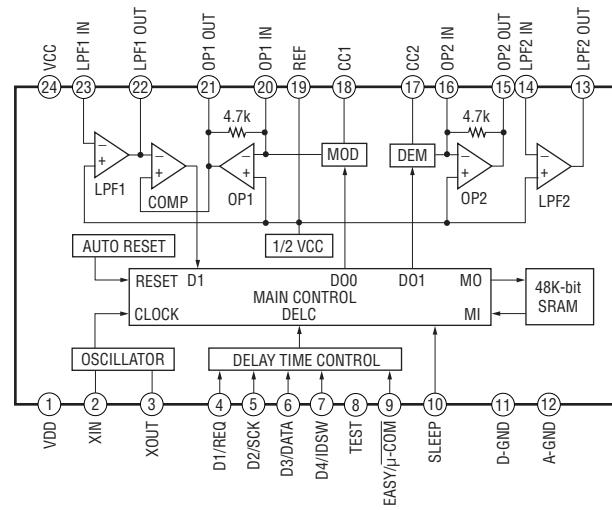
IC501 µPC2581V-S (MAIN BOARD (2/2))



IC2000 M5243BFP09-CF0J (MIC TONE BOARD)
IC2100 M5243BFP09-CF0J (DISPLAY BOARD)



IC2010 M65831AFP (MIC TONE BOARD)



• IC Pin Description

IC1101 MB90488BPF-G-231E1 (SYSTEM CONTROL) (DIGITAL BOARD (2/2))

Pin No.	Pin Name	I/O	Pin Description
1 to 4	MON0 to MON3	O	Test pin 0 to 3
5 to 10	NO_USE	O	Not used (Open)
11	VSS	—	Ground
12 to 22	NO_USE	O	Not used (Open)
23	VCC5	—	Power supply pin (+3.3 V)
24	MIC_MUTE	O	Microphone mute control signal output
25, 26	NO_USE	O	Not used (Open)
27	FLASH2	I	Flash programming signal input 2
28	FLASH1	O	Flash programming signal output 1
29	SDA	I/O	Serial data input/output for EEPROM IC
30	SCL	O	Clock signal output for EEPROM IC
31	VOL_CLK	O	Clock signal output for DIR IC
32	VOL_DATA	O	Serial data output for DIR IC
33	KARA_DATA	I	KARAOKE serial data input from KARAOKE CONTROL IC
34	KARA_REQ	O	KARAOKE request signal output for KARAOKE CONTROL IC
35	AVCC	—	Power supply pin (+3.3 V)
36	AVRH	—	Power supply pin (+3.3 V)
37	AVSS	—	Ground
38 to 40	A/D0 to A/D2	I	Key signal input (A/D port)
41	VERSION	I	Destination detection signal input (Fixed at L)
42	VSS	—	Ground
43	NO_USE	O	Not used (Open)
44	MODEL	I	Model detection signal input (Fixed at L)
45	NO_USE	O	Not used (Open)
46	VOL_ENC (B)	I	MASTER VOLUME encoder (B) signal input
47	VOL_ENC (A)	I	MASTER VOLUME encoder (A) signal input
48	AC_STOP	I	AC off detection signal input
49	MOD0	—	Selection of micon operation mode
50	MOD1	—	Not used (Connect to AVCC)
51	MOD2	—	Selection of micon operation mode
52	RPT_CRT_1	O	Repeat echo control signal output 1 for ECHO LEVEL CONTROL IC
53	RPT_CRT_2	O	Repeat echo control signal output 2 for ECHO LEVEL CONTROL IC
54	SIRCS	I	SIRCS signal input
55	NO_USE	O	Not used (Open)
56	POWER_KEY	I	Power key detection signal input
57	FL_LAT	O	Latch signal output for FL driver IC
58	POWER_RY	O	Power relay driver control signal output
59	FL_DATA	O	Serial data output for FL driver IC
60	FL_CLK	O	Clock signal output for FL driver IC
61	PROTECTOR	I	Protector detection signal input
62	NO_USE	O	Not used (Open)
63	INPUT ENC (A)	I	INPUT SELECTOR encoder (A) signal input
64	INPUT ENC (B)	I	INPUT SELECTOR encoder (B) signal input
65	ECHO_DATA	O	Serial data output for ECHO LEVEL CONTROL IC
66	ECHO_SCK	O	Clock signal output for ECHO LEVEL CONTROL IC
67	ECHO_REQ	O	Request signal output for ECHO LEVEL CONTROL IC
68	FUSE_DETECT	I	Fuse open detection signal input
69	SPK_B_RY	O	Front B speaker relay driver control signal output
70	SW_RELAY	O	Sub woofer relay driver control signal output
71	FRONT_RY	O	Front A speaker relay driver control signal output

TA-DK2

Pin No.	Pin Name	I/O	Pin Description
72	BRIDGEABLE_RY	O	Not used (Open)
73 to 76	NO_USE	O	Not used (Open)
77	RSTX	I	Reset signal input
78	NO_USE	O	Not used (Open)
79	X1A	—	Not used (Open)
80	X0A	—	Not used (Connect to VSS)
81	VSS	—	Ground
82	X0	—	Clock signal input (24 MHz)
83	X1	—	Clock signal output (24 MHz)
84	VCC3	—	Power supply pin (+3.3 V)
85 to 94	NO_USE	O	Not used (Open)
95	KARA_RW	O	KARAOKE read/write signal output for KARAOKE CONTROL IC
96	KARA_STB	O	KARAOKE strobe signal output for KARAOKE CONTROL IC
97	KARA_CLK	O	KARAOKE clock signal output for KARAOKE CONTROL IC
98 to 100	NO_USE	O	Not used (Open)

SECTION 5 EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- -XX and -X mean standardized parts, so they may have some difference from the original one.

- Color Indication of Appearance Parts Example :

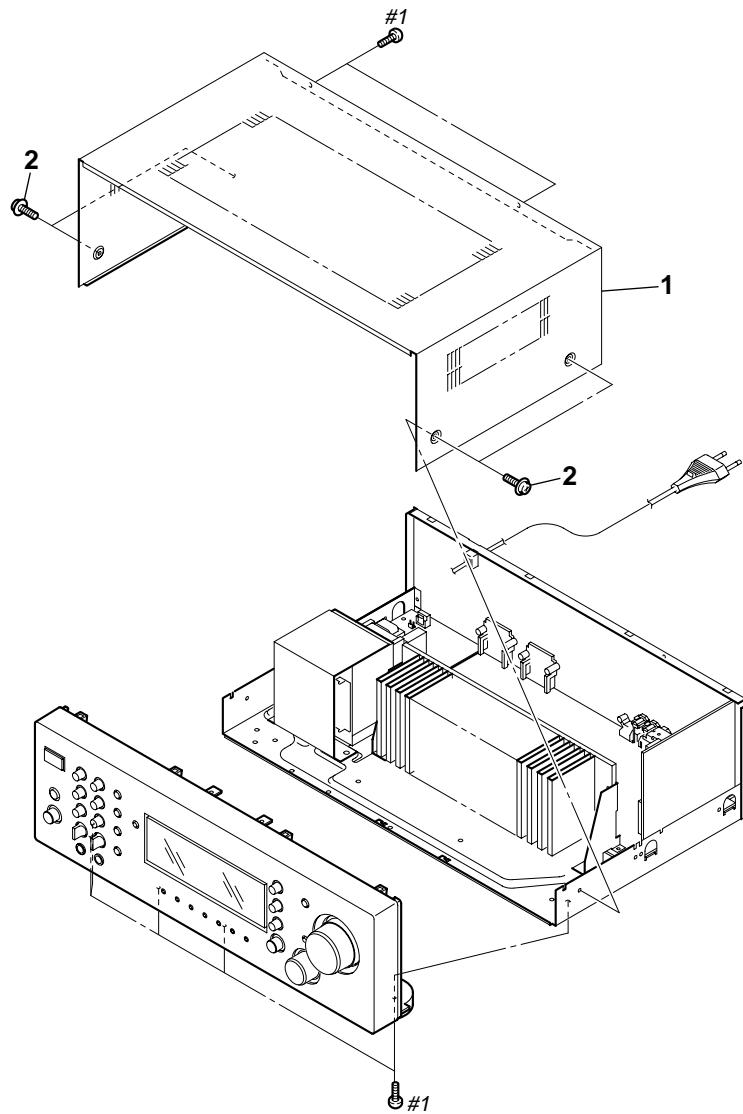
KNOB, BALANCE (WHITE) ... (RED)

↑
Parts Color Cabinet's Color

- Accessories are given in the last of this parts list.

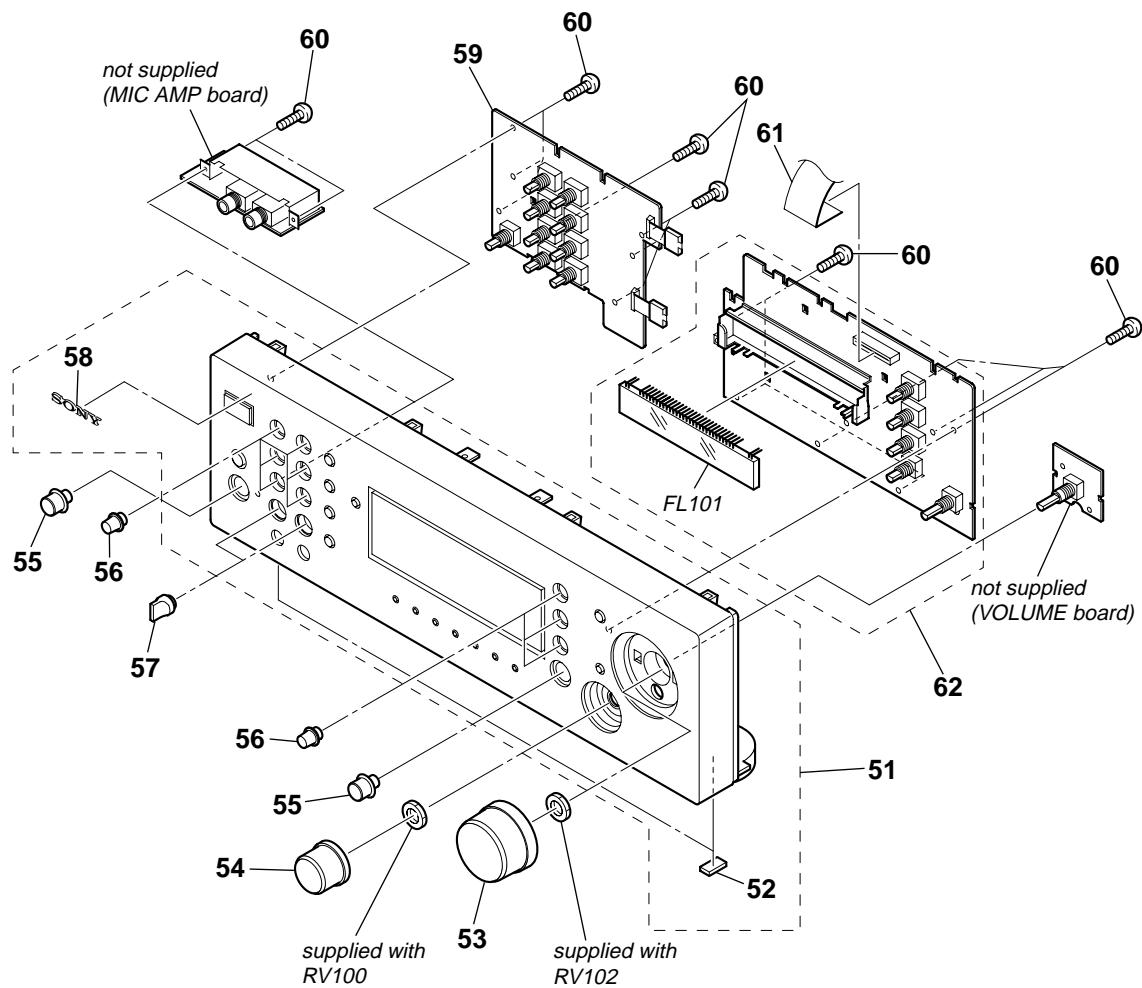
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

5-1. CASE SECTION



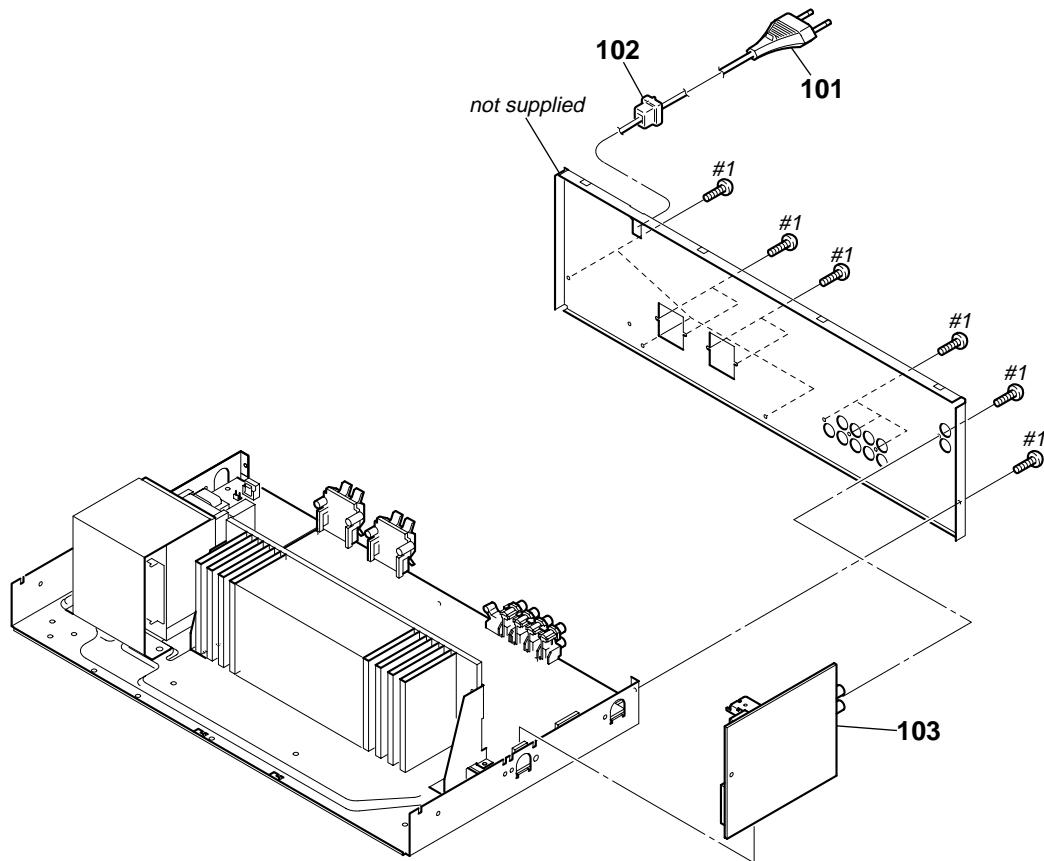
<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
1	4-245-939-41	CASE (GOLD)...(GOLD)		2	3-363-099-11	SCREW (CASE 3 TP2)	
1	4-245-939-61	CASE (SILVER)...(SILVER)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

5-2. FRONT PANEL SECTION



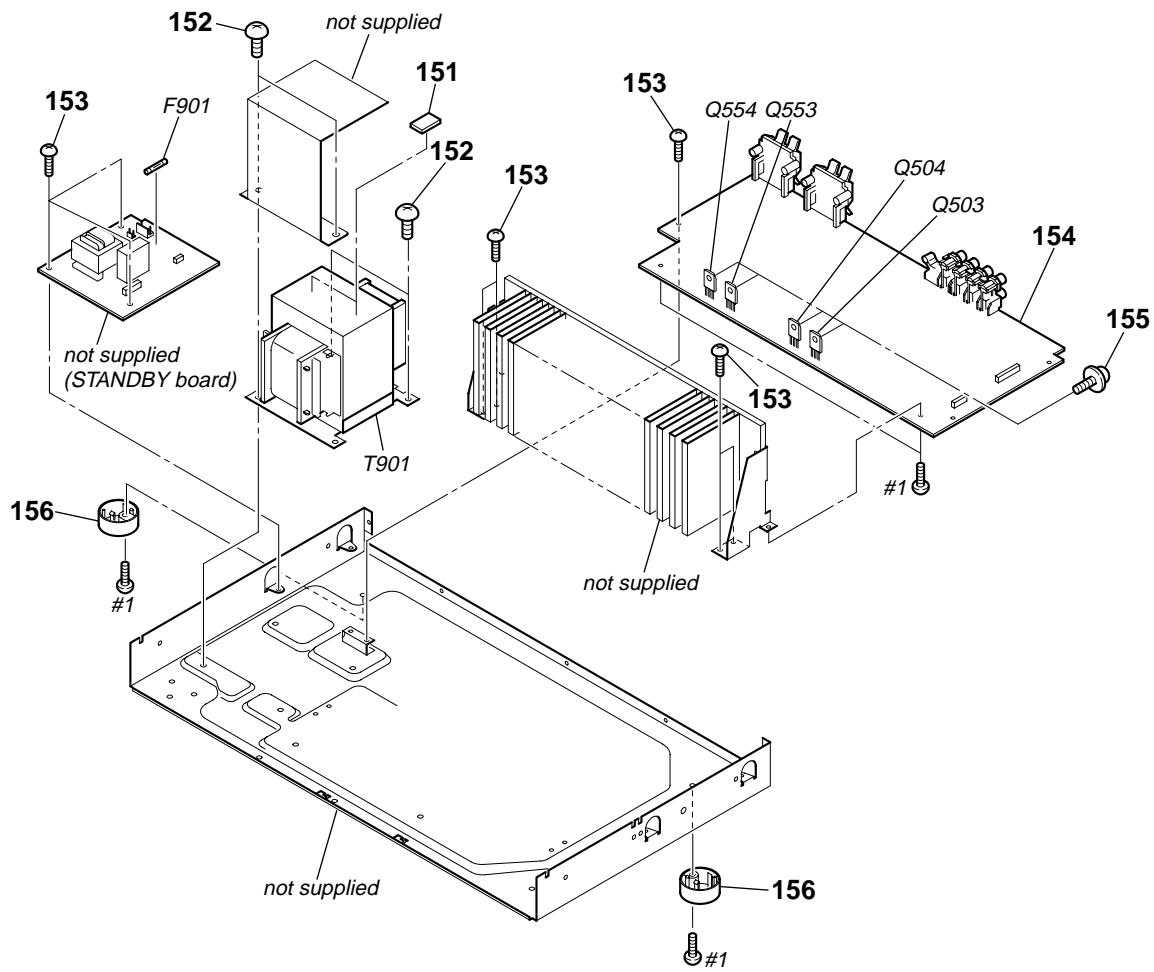
<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
51	X-2149-985-1	FRONT PANEL ASSY (GOLD)...(GOLD)		56	2-655-486-21	KNOB (MIC TONE) (GOLD)...(GOLD)	
51	X-2159-696-1	FRONT PANEL ASSY (SILVER)...(SILVER)		57	2-655-485-01	KNOB (MIC VOL) (SILVER)...(SILVER)	
52	4-977-358-01	CUSHION		57	2-655-485-21	KNOB (MIC VOL) (GOLD)...(GOLD)	
53	4-240-507-11	KNOB (VOL) (GOLD)...(GOLD)		58	4-240-858-11	EMBLEM (5-A), SONY (GOLD)...(GOLD)	
53	4-240-507-41	KNOB (VOL) (SILVER)...(SILVER)		58	4-240-858-21	EMBLEM (5-A), SONY (SILVER)...(SILVER)	
54	4-232-569-12	KNOB (FN DE9) (GOLD)...(GOLD)		59	A-1216-815-A	MIC TONE BOARD, COMPLETE	
54	4-232-569-31	KNOB (FN DE9) (SILVER)...(SILVER)		60	3-087-053-01	+BVTP 2.6 (3CR)	
55	2-668-074-41	KNOB (ECHO) (GOLD)...(GOLD)		61	1-829-034-11	WIRE (FLAT TYPE) (25 CORE)	
55	2-668-074-51	KNOB (ECHO) (SILVER)...(SILVER)		62	A-1216-813-A	DISPLAY BOARD, COMPLETE	
56	2-655-486-01	KNOB (MIC TONE) (SILVER)...(SILVER)		FL101	1-518-966-11	VACUUM FLUORESCENT DISPLAY	

5-3. BACK PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
△ 101	1-777-071-83	CORD, POWER		103	A-1216-806-A	DIGITAL BOARD, COMPLETE	
* 102	3-703-244-00	BUSHING (2104), CORD		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	

5-4. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	4-985-642-01	CUSHION		Q503	6-702-390-01	TRANSISTOR MN2488-OPY-MK	
152	4-900-386-01	SCREW		Q504	6-702-391-01	TRANSISTOR MP1620-OPY-MK	
153	3-077-331-21	+BV3 (3-CR)		Q553	6-702-390-01	TRANSISTOR MN2488-OPY-MK	
154	A-1216-809-A	MAIN BOARD, COMPLETE		Q554	6-702-391-01	TRANSISTOR MP1620-OPY-MK	
155	3-905-609-01	SCREW (TRANSISTOR)		△T901	1-443-914-11	TRANSFORMER, POWER (MAIN)	
156	X-4953-448-1	FOOT ASSY		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
△F901	1-532-464-33	FUSE (T2.5AL/250V)					

SECTION 6

ELECTRICAL PARTS LIST

DIGITAL

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- **RESISTORS**
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• SEMICONDUCTORSIn each case, u : μ , for example:uA.. : μ A.. uPA.. : μ PA..
uPB.. : μ PB.. uPC.. : μ PC.. uPD.. : μ PD..**• CAPACITORS**uF : μ F**• COILS**uH : μ H

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
	A-1216-806-A	DIGITAL BOARD, COMPLETE				C1505	1-126-964-11	ELECT	10uF	20%	50V
		*****				C1506	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3				C1507	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
		< CAPACITOR >				C1508	1-126-964-11	ELECT	10uF	20%	50V
C1005	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V	C1511	1-126-964-11	ELECT	10uF	20%	50V
C1021	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1514	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1022	1-126-925-11	ELECT	470uF	20%	10V	C1545	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C1031	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1546	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C1032	1-126-925-11	ELECT	470uF	20%	10V	C1913	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1075	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C1914	1-126-947-11	ELECT	47uF	20%	35V
C1076	1-126-947-11	ELECT	47uF	20%	35V	C2300	1-126-960-11	ELECT	1uF	20%	50V
C1102	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C2301	1-126-964-11	ELECT	10uF	20%	50V
C1103	1-126-947-11	ELECT	47uF	20%	35V	C2302	1-131-664-11	CERAMIC CHIP	0.15uF	10%	10V
C1107	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C2303	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C1108	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C2304	1-131-664-11	CERAMIC CHIP	0.15uF	10%	10V
C1119	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C2305	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C1121	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C2306	1-126-961-11	ELECT	2.2uF	20%	50V
C1122	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C2307	1-165-138-11	CERAMIC CHIP	560PF	2%	50V
C1123	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C2308	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C1124	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C2309	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1126	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C2310	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1129	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C2311	1-126-961-11	ELECT	2.2uF	20%	50V
C1130	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C2312	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1133	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C2313	1-115-414-11	CERAMIC CHIP	820PF	5%	25V
C1134	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C2314	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C1137	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C2315	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C1138	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C2316	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C1139	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C2317	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C1140	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C2318	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C1142	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C2319	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C1147	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C2320	1-126-967-11	ELECT	47uF	20%	50V
C1148	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	C2321	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1244	1-126-960-11	ELECT	1uF	20%	50V	C2324	1-100-152-11	CERAMIC CHIP	100PF	5%	100V
C1245	1-126-960-11	ELECT	1uF	20%	50V	C2325	1-100-152-11	CERAMIC CHIP	100PF	5%	100V
C1246	1-100-566-11	CERAMIC CHIP	0.15uF	10%	10V	C2326	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1299	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	C2327	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C1413	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	C2328	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C1415	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	C2329	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1416	1-126-964-11	ELECT	10uF	20%	50V	C2330	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V
C1418	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	C2331	1-110-563-11	CERAMIC CHIP	0.068uF	10%	16V
C1419	1-126-964-11	ELECT	10uF	20%	50V	C2332	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1503	1-126-961-11	ELECT	2.2uF	20%	50V	C2333	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C1504	1-126-964-11	ELECT	10uF	20%	50V	C2334	1-115-156-11	CERAMIC CHIP	1uF	10%	10V

DIGITAL

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>			<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>			
C2337	1-126-933-11	ELECT	100uF	20%	16V				< TRANSISTOR >			
C2338	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V				Q1103	8-729-027-43	TRANSISTOR DTC114EKA-T146	
C2339	1-113-619-11	CERAMIC CHIP	0.47uF	10V			Q1301	8-729-027-31	TRANSISTOR DTA124EKA-T146			
C2340	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V				Q1545	8-729-802-80	TRANSISTOR 2SC3661-TB-E	
C2341	1-126-964-11	ELECT	10uF	20%	50V				Q1548	8-729-802-80	TRANSISTOR 2SC3661-TB-E	
C2342	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V				< RESISTOR >			
C2343	1-126-933-11	ELECT	100uF	20%	16V				R1039	1-216-833-11	METAL CHIP 10K 5% 1/10W	
C2345	1-100-152-11	CERAMIC CHIP	100PF	5%	100V				R1045	1-216-809-11	METAL CHIP 100 5% 1/10W	
C2346	1-100-152-11	CERAMIC CHIP	100PF	5%	100V				R1046	1-216-809-11	METAL CHIP 100 5% 1/10W	
C2351	1-126-964-11	ELECT	10uF	20%	50V				R1047	1-216-809-11	METAL CHIP 100 5% 1/10W	
C2352	1-162-960-11	CERAMIC CHIP	220PF	10%	50V				R1048	1-216-833-11	METAL CHIP 10K 5% 1/10W	
C2355	1-162-960-11	CERAMIC CHIP	220PF	10%	50V				R1071	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
C2388	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V				R1072	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
C2389	1-113-619-11	CERAMIC CHIP	0.47uF	10V			R1073	1-216-827-11	METAL CHIP 3.3K 5% 1/10W			
C2390	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V				R1076	1-216-809-11	METAL CHIP 100 5% 1/10W	
C2391	1-126-964-11	ELECT	10uF	20%	50V				R1079	1-216-833-11	METAL CHIP 10K 5% 1/10W	
C2392	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V				R1088	1-216-833-11	METAL CHIP 10K 5% 1/10W	
C2403	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V				R1096	1-216-833-11	METAL CHIP 10K 5% 1/10W	
< CONNECTOR >												
CNP200	1-784-925-11	PIN, CONNECTOR 10P				R1097	1-216-833-11	METAL CHIP 10K 5% 1/10W				
CNP503	1-784-923-11	PIN, CONNECTOR 7P				R1105	1-216-833-11	METAL CHIP 10K 5% 1/10W				
CNP505	1-784-924-11	PIN, CONNECTOR 8P				R1106	1-216-809-11	METAL CHIP 100 5% 1/10W				
CNS501	1-573-829-11	CONNECTOR, BOARD TO BOARD 15P				R1107	1-216-825-11	METAL CHIP 2.2K 5% 1/10W				
CNS502	1-766-719-41	CONNECTOR, BOARD TO BOARD 10P				R1108	1-216-825-11	METAL CHIP 2.2K 5% 1/10W				
CNS504	1-568-828-11	CONNECTOR, FFC 9P				R1109	1-216-825-11	METAL CHIP 2.2K 5% 1/10W				
CNS555	1-784-786-11	CONNECTOR, FFC 25P				R1110	1-216-825-11	METAL CHIP 2.2K 5% 1/10W				
< DIODE >												
D1001	8-719-053-18	DIODE 1SR154-400TE-25				R1112	1-216-809-11	METAL CHIP 100 5% 1/10W				
D1106	8-719-988-61	DIODE 1SS355TE-17				R1123	1-216-809-11	METAL CHIP 100 5% 1/10W				
D1110	8-719-988-61	DIODE 1SS355TE-17				R1124	1-216-809-11	METAL CHIP 100 5% 1/10W				
D1111	8-719-988-61	DIODE 1SS355TE-17				R1127	1-216-809-11	METAL CHIP 100 5% 1/10W				
D1112	8-719-988-61	DIODE 1SS355TE-17				R1128	1-216-809-11	METAL CHIP 100 5% 1/10W				
< FERRITE BEAD >												
FB1101	1-400-862-11	BEAD, FERRITE				R1129	1-216-809-11	METAL CHIP 100 5% 1/10W				
FB1308	1-400-862-11	BEAD, FERRITE				R1133	1-216-809-11	METAL CHIP 100 5% 1/10W				
FB1309	1-400-862-11	BEAD, FERRITE				R1134	1-216-809-11	METAL CHIP 100 5% 1/10W				
< IC >												
IC1031	6-705-464-01	IC BA50BC0T				R1135	1-216-809-11	METAL CHIP 100 5% 1/10W				
IC1065	6-703-547-01	IC TA7805LS				R1136	1-216-809-11	METAL CHIP 100 5% 1/10W				
IC1101	6-807-121-01	IC MB90488BPF-G-231E1				R1137	1-216-809-11	METAL CHIP 100 5% 1/10W				
IC1103	8-759-710-97	IC NJM4565M-D				R1138	1-216-809-11	METAL CHIP 100 5% 1/10W				
IC1104	8-759-710-97	IC NJM4565M-D				R1139	1-216-809-11	METAL CHIP 100 5% 1/10W				
IC1106	8-759-710-97	IC NJM4565M-D				R1140	1-216-809-11	METAL CHIP 100 5% 1/10W				
IC1108	8-759-710-97	IC NJM4565M-D				R1141	1-216-809-11	METAL CHIP 100 5% 1/10W				
IC1111	6-702-913-01	IC S-80929CNMC-G8ZT2G				R1142	1-216-809-11	METAL CHIP 100 5% 1/10W				
IC1131	6-704-004-01	IC BR24L16F-WE2				R1147	1-216-833-11	METAL CHIP 10K 5% 1/10W				
IC1902	8-759-701-59	IC NJM78M09FA				R1159	1-216-827-11	METAL CHIP 3.3K 5% 1/10W				
IC1904	6-705-463-01	IC BA33BC0T				R1160	1-216-825-11	METAL CHIP 2.2K 5% 1/10W				
IC2300	6-709-162-01	IC M65851FP-RF0T				R1161	1-216-825-11	METAL CHIP 2.2K 5% 1/10W				
IC2301	8-759-491-47	IC TC74VHCT08AFT(EL)				R1164	1-216-864-11	SHORT CHIP 0				
< JACK >												
J1501	1-764-767-21	JACK, PIN 2P (MIC OUTPUT)				R1167	1-216-809-11	METAL CHIP 100 5% 1/10W				
						R1168	1-216-809-11	METAL CHIP 100 5% 1/10W				
						R1179	1-216-833-11	METAL CHIP 10K 5% 1/10W				
						R1180	1-216-833-11	METAL CHIP 10K 5% 1/10W				
						R1181	1-216-833-11	METAL CHIP 10K 5% 1/10W				
						R1182	1-216-833-11	METAL CHIP 10K 5% 1/10W				
						R1186	1-216-833-11	METAL CHIP 10K 5% 1/10W				
						R1189	1-216-833-11	METAL CHIP 10K 5% 1/10W				
						R1190	1-216-833-11	METAL CHIP 10K 5% 1/10W				

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
R1194	1-216-864-11	SHORT CHIP	0	R2355	1-216-833-11	METAL CHIP	10K 5% 1/10W
R1198	1-216-864-11	SHORT CHIP	0	R2356	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R1200	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	R2357	1-216-833-11	METAL CHIP	10K 5% 1/10W
R1202	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	R2358	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R1210	1-216-825-11	METAL CHIP	2.2K 5% 1/10W				< VIBRATOR >
R1211	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	X1101	1-813-448-21	PIEZOELECTRIC OSCILLATOR (24MHz)	*****
R1299	1-216-864-11	SHORT CHIP	0				*****
R1301	1-216-845-11	METAL CHIP	100K 5% 1/10W				*****
R1302	1-216-833-11	METAL CHIP	10K 5% 1/10W				*****
R1417	1-216-829-11	METAL CHIP	4.7K 5% 1/10W				A-1216-813-A DISPLAY BOARD, COMPLETE

R1418	1-216-829-11	METAL CHIP	4.7K 5% 1/10W				< CAPACITOR >
R1420	1-216-833-11	METAL CHIP	10K 5% 1/10W	C100	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V
R1421	1-216-833-11	METAL CHIP	10K 5% 1/10W	C101	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V
R1422	1-216-833-11	METAL CHIP	10K 5% 1/10W	C103	1-124-261-00	ELECT	10uF 20% 50V
R1423	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	C108	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V
R1424	1-216-833-11	METAL CHIP	10K 5% 1/10W	C109	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V
R1425	1-216-813-11	METAL CHIP	220 5% 1/10W	C110	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
R1426	1-216-833-11	METAL CHIP	10K 5% 1/10W	C111	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
R1427	1-216-833-11	METAL CHIP	10K 5% 1/10W	C112	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
R1429	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	C114	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V
R1501	1-216-821-11	METAL CHIP	1K 5% 1/10W	C115	1-124-261-00	ELECT	10uF 20% 50V
R1503	1-216-839-11	METAL CHIP	33K 5% 1/10W	C132	1-164-230-11	CERAMIC CHIP	220PF 5% 50V
R1504	1-216-833-11	METAL CHIP	10K 5% 1/10W	C133	1-164-230-11	CERAMIC CHIP	220PF 5% 50V
R1505	1-216-841-11	METAL CHIP	47K 5% 1/10W	C134	1-164-230-11	CERAMIC CHIP	220PF 5% 50V
R1508	1-216-845-11	METAL CHIP	100K 5% 1/10W	C135	1-164-230-11	CERAMIC CHIP	220PF 5% 50V
R1511	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	C136	1-164-230-11	CERAMIC CHIP	220PF 5% 50V
R1514	1-216-845-11	METAL CHIP	100K 5% 1/10W	C137	1-164-230-11	CERAMIC CHIP	220PF 5% 50V
R1515	1-216-845-11	METAL CHIP	100K 5% 1/10W	C138	1-164-230-11	CERAMIC CHIP	220PF 5% 50V
R1544	1-216-821-11	METAL CHIP	1K 5% 1/10W	C139	1-164-230-11	CERAMIC CHIP	220PF 5% 50V
R1545	1-216-845-11	METAL CHIP	100K 5% 1/10W	C140	1-164-230-11	CERAMIC CHIP	220PF 5% 50V
R1546	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	C141	1-164-230-11	CERAMIC CHIP	220PF 5% 50V
R1547	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	C142	1-164-230-11	CERAMIC CHIP	220PF 5% 50V
R1548	1-216-845-11	METAL CHIP	100K 5% 1/10W	C143	1-164-230-11	CERAMIC CHIP	220PF 5% 50V
R1549	1-216-821-11	METAL CHIP	1K 5% 1/10W	C144	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V
R2286	1-216-821-11	METAL CHIP	1K 5% 1/10W	C145	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V
R2300	1-216-835-11	METAL CHIP	15K 5% 1/10W	C150	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V
R2301	1-216-828-11	METAL CHIP	3.9K 5% 1/10W	C151	1-124-261-00	ELECT	10uF 20% 50V
R2302	1-216-838-11	METAL CHIP	27K 5% 1/10W	C152	1-164-230-11	CERAMIC CHIP	220PF 5% 50V
R2303	1-216-830-11	METAL CHIP	5.6K 5% 1/10W	C153	1-164-230-11	CERAMIC CHIP	220PF 5% 50V
R2304	1-216-833-11	METAL CHIP	10K 5% 1/10W	C154	1-164-230-11	CERAMIC CHIP	220PF 5% 50V
R2305	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	C156	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V
R2306	1-216-833-11	METAL CHIP	10K 5% 1/10W	C157	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V
R2307	1-216-835-11	METAL CHIP	15K 5% 1/10W	C160	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V
R2308	1-216-833-11	METAL CHIP	10K 5% 1/10W	C161	1-124-261-00	ELECT	10uF 20% 50V
R2309	1-216-821-11	METAL CHIP	1K 5% 1/10W	C162	1-164-230-11	CERAMIC CHIP	220PF 5% 50V
R2310	1-216-809-11	METAL CHIP	100 5% 1/10W	C163	1-164-230-11	CERAMIC CHIP	220PF 5% 50V
R2311	1-216-809-11	METAL CHIP	100 5% 1/10W	C164	1-164-230-11	CERAMIC CHIP	220PF 5% 50V
R2312	1-216-809-11	METAL CHIP	100 5% 1/10W	C175	1-124-261-00	ELECT	10uF 20% 50V
R2335	1-216-809-11	METAL CHIP	100 5% 1/10W	C176	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V
R2336	1-216-809-11	METAL CHIP	100 5% 1/10W	C2042	1-124-261-00	ELECT	10uF 20% 50V
R2347	1-216-833-11	METAL CHIP	10K 5% 1/10W	C2082	1-124-261-00	ELECT	10uF 20% 50V
R2348	1-216-833-11	METAL CHIP	10K 5% 1/10W	C2100	1-124-257-00	ELECT	2.2uF 20% 50V
R2349	1-216-833-11	METAL CHIP	10K 5% 1/10W	C2102	1-124-257-00	ELECT	2.2uF 20% 50V
R2350	1-216-841-11	METAL CHIP	47K 5% 1/10W	C2103	1-164-245-11	CERAMIC CHIP	0.015uF 10% 25V
R2351	1-216-841-11	METAL CHIP	47K 5% 1/10W	C2104	1-124-257-00	ELECT	2.2uF 20% 50V
R2352	1-216-833-11	METAL CHIP	10K 5% 1/10W	C2105	1-162-965-11	CERAMIC CHIP	0.0015uF 10% 50V
R2353	1-216-833-11	METAL CHIP	10K 5% 1/10W	C2106	1-115-467-11	CERAMIC CHIP	0.22uF 10% 10V
R2354	1-216-833-11	METAL CHIP	10K 5% 1/10W				

DISPLAY

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C2107	1-164-217-11	CERAMIC CHIP	150PF	5%	50V	R108	1-216-833-11	METAL CHIP	10K	5%	1/10W
C2108	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	R109	1-216-833-11	METAL CHIP	10K	5%	1/10W
C2109	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	R110	1-216-833-11	METAL CHIP	10K	5%	1/10W
C2110	1-124-257-00	ELECT	2.2uF	20%	50V	R111	1-216-813-11	METAL CHIP	220	5%	1/10W
C2136	1-124-257-00	ELECT	2.2uF	20%	50V	R112	1-216-815-11	METAL CHIP	330	5%	1/10W
C2150	1-124-257-00	ELECT	2.2uF	20%	50V	R113	1-216-817-11	METAL CHIP	470	5%	1/10W
C2152	1-124-257-00	ELECT	2.2uF	20%	50V	R114	1-216-819-11	METAL CHIP	680	5%	1/10W
C2153	1-164-245-11	CERAMIC CHIP	0.015uF	10%	25V	R121	1-216-813-11	METAL CHIP	220	5%	1/10W
C2154	1-124-257-00	ELECT	2.2uF	20%	50V	R122	1-216-815-11	METAL CHIP	330	5%	1/10W
C2155	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	R123	1-216-817-11	METAL CHIP	470	5%	1/10W
C2156	1-115-467-11	CERAMIC CHIP	0.22uF	10%	10V	R150	1-216-844-11	METAL CHIP	82K	5%	1/10W
C2157	1-164-217-11	CERAMIC CHIP	150PF	5%	50V	R152	1-216-809-11	METAL CHIP	100	5%	1/10W
C2158	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	R153	1-216-809-11	METAL CHIP	100	5%	1/10W
C2159	1-115-416-11	CERAMIC CHIP	0.001uF	5%	25V	R154	1-216-809-11	METAL CHIP	100	5%	1/10W
C2160	1-124-257-00	ELECT	2.2uF	20%	50V	R161	1-216-814-11	METAL CHIP	270	5%	1/10W
C2165	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	R170	1-216-809-11	METAL CHIP	100	5%	1/10W
C2166	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	R172	1-216-809-11	METAL CHIP	100	5%	1/10W
C2186	1-124-257-00	ELECT	2.2uF	20%	50V	R173	1-216-809-11	METAL CHIP	100	5%	1/10W
C2201	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	R174	1-216-809-11	METAL CHIP	100	5%	1/10W
C2224	1-100-566-11	CERAMIC CHIP	0.1uF	10%	25V	R175	1-249-393-11	CARBON	10	5%	1/4W F
C2225	1-124-584-00	ELECT	100uF	20%	10V	R176	1-216-821-11	METAL CHIP	1K	5%	1/10W
	< CONNECTOR >					R179	1-216-821-11	METAL CHIP	1K	5%	1/10W
CN101	1-568-669-11	CONNECTOR, BOARD TO BOARD 8P				R180	1-216-809-11	METAL CHIP	100	5%	1/10W
CN102	1-568-669-11	CONNECTOR, BOARD TO BOARD 8P				R181	1-216-809-11	METAL CHIP	100	5%	1/10W
CNS505	1-784-786-11	CONNECTOR, FFC 25P				R182	1-216-809-11	METAL CHIP	100	5%	1/10W
	< DIODE >					R183	1-216-809-11	METAL CHIP	100	5%	1/10W
D100	8-719-069-54	DIODE UDVZSTE-175.1B				R184	1-216-809-11	METAL CHIP	100	5%	1/10W
D101	8-719-046-39	LED SEL5821A-TP15 (D.B.F.B.)				R185	1-216-809-11	METAL CHIP	100	5%	1/10W
	< VACUUM FLUORESCENT DISPLAY >					R198	1-249-381-11	CARBON	1	5%	1/4W F
FL101	1-518-966-11	VACUUM FLUORESCENT DISPLAY				R199	1-249-381-11	CARBON	1	5%	1/4W F
	< IC >					R2013	1-216-833-11	METAL CHIP	10K	5%	1/10W
IC100	8-759-643-83	IC uPD16315GB-3BS				R2026	1-216-833-11	METAL CHIP	10K	5%	1/10W
IC101	8-759-157-94	IC TC74ACT08F(EL)				R2036	1-216-833-11	METAL CHIP	10K	5%	1/10W
IC102	6-600-309-01	IC RPM7240-H9 (IR)				R2037	1-216-833-11	METAL CHIP	10K	5%	1/10W
IC104	8-759-157-94	IC TC74ACT08F(EL)				R2038	1-216-841-11	METAL CHIP	47K	5%	1/10W
IC2100	6-709-163-01	IC M5243BFP09-CFOJ				R2063	1-216-833-11	METAL CHIP	10K	5%	1/10W
	< JUMPER RESISTOR >					R2076	1-216-833-11	METAL CHIP	10K	5%	1/10W
IC2101	8-759-710-97	IC NJM4565M-D				R2086	1-216-833-11	METAL CHIP	10K	5%	1/10W
IC2102	8-759-710-97	IC NJM4565M-D				R2087	1-216-833-11	METAL CHIP	10K	5%	1/10W
	< JUMPER RESISTOR >					R2088	1-216-841-11	METAL CHIP	47K	5%	1/10W
JR181	1-216-864-11	SHORT CHIP	0			R2100	1-216-845-11	METAL CHIP	100K	5%	1/10W
L101	1-216-864-11	SHORT CHIP	0			R2101	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
L102	1-216-864-11	SHORT CHIP	0			R2103	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
	< TRANSISTOR >					R2141	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	< ROTARY ENCODER >					R2142	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
Q106	8-729-027-43	TRANSISTOR DTC114EKA-T146				R2150	1-216-845-11	METAL CHIP	100K	5%	1/10W
Q107	8-729-027-43	TRANSISTOR DTC114EKA-T146				R2151	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
Q108	8-729-027-43	TRANSISTOR DTC114EKA-T146				R2153	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
Q109	8-729-027-43	TRANSISTOR DTC114EKA-T146				R2214	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	< VARIABLE RESISTOR >					R2215	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
	< RESISTOR >					RV100	1-418-817-11	ENCODER, ROTARY (INPUT SELECTOR)			
R106	1-216-815-11	METAL CHIP	330	5%	1/10W	RV2101	1-227-736-11	RES, VAR, CARBON 100KX2			
R107	1-216-833-11	METAL CHIP	10K	5%	1/10W			(LOW (MUSIC TONE))			

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
RV2102	1-227-736-11	RES, VAR, CARBON 100KX2 (MID (MUSIC TONE))		C516	1-136-157-00	FILM	0.022uF 5% 50V
RV2103	1-227-781-11	RES, VAR, CARBON 10KX2 (MUSIC VOLUME)		C551	1-126-963-11	ELECT	4.7uF 20% 50V
RV2104	1-227-736-11	RES, VAR, CARBON 100KX2 (HIGH (MUSIC TONE))		C552	1-128-809-11	CERAMIC	100PF 5% 50V
		< SWITCH >		C553	1-128-809-11	CERAMIC	100PF 5% 50V
S111	1-771-410-21	SWITCH, TACTILE (BALANCE L)		C554	1-102-233-00	CERAMIC	33PF 10% 500V
S112	1-771-410-21	SWITCH, TACTILE (ECHO REPEAT +)		C556	1-107-583-11	CERAMIC	3PF 0.25PF 500V
S113	1-771-410-21	SWITCH, TACTILE (ECHO REPEAT -)		C557	1-104-658-11	ELECT	100uF 20% 10V
S114	1-771-410-21	SWITCH, TACTILE (ECHO DELAY +)		C558	1-126-947-11	ELECT	47uF 20% 35V
S115	1-771-410-21	SWITCH, TACTILE (ECHO DELAY -)		C561	1-162-815-11	CERAMIC	47PF 5% 500V
S121	1-771-410-21	SWITCH, TACTILE (D.B.F.B.)		C562	1-162-815-11	CERAMIC	47PF 5% 500V
S122	1-771-410-21	SWITCH, TACTILE (MUTING)		C563	1-128-813-11	CERAMIC	220PF 5% 50V
S123	1-771-410-21	SWITCH, TACTILE (SPEAKERS (OFF/A/B/A+B))		C566	1-136-157-00	FILM	0.022uF 5% 50V
S124	1-771-410-21	SWITCH, TACTILE (BALANCE R)		C801	1-135-798-11	CERAMIC	0.22uF 50V
		*****		C802	1-135-798-11	CERAMIC	0.22uF 50V
		A-1216-809-A MAIN BOARD, COMPLETE		C803	1-126-936-11	ELECT	3300uF 20% 16V
		*****		C806	1-126-947-11	ELECT	47uF 20% 35V
		7-685-646-79 SCREW +BVTP 3X8 TYPE2 IT-3		C807	1-126-947-11	ELECT	47uF 20% 35V
		< CAPACITOR >		C808	1-126-947-11	ELECT	47uF 20% 35V
C400	1-127-888-11	CERAMIC	0.1uF 10% 50V	C811	1-136-497-81	FILM	0.1uF 5% 50V
C402	1-126-964-11	ELECT	10uF 20% 50V	C812	1-136-497-81	FILM	0.1uF 5% 50V
C403	1-128-813-11	CERAMIC	220PF 5% 50V	C813	1-100-968-11	ELECT	4700uF 20% 63V
C404	1-128-813-11	CERAMIC	220PF 5% 50V	C814	1-100-968-11	ELECT	4700uF 20% 63V
C421	1-126-963-11	ELECT	4.7uF 20% 50V	C815	1-128-582-11	ELECT	10uF 20% 100V
C422	1-126-963-11	ELECT	4.7uF 20% 50V	C816	1-128-582-11	ELECT	10uF 20% 100V
C423	1-126-963-11	ELECT	4.7uF 20% 50V	C821	1-127-888-11	CERAMIC	0.1uF 10% 50V
C424	1-126-963-11	ELECT	4.7uF 20% 50V	C822	1-127-888-11	CERAMIC	0.1uF 10% 50V
C425	1-126-963-11	ELECT	4.7uF 20% 50V	C823	1-126-947-11	ELECT	47uF 20% 35V
C426	1-126-963-11	ELECT	4.7uF 20% 50V	C824	1-126-947-11	ELECT	47uF 20% 35V
C431	1-126-964-11	ELECT	10uF 20% 50V	C881	1-126-934-11	ELECT	220uF 20% 16V
C432	1-126-964-11	ELECT	10uF 20% 50V	C882	1-126-964-11	ELECT	10uF 20% 50V
C433	1-126-961-11	ELECT	2.2uF 20% 50V	CC11	1-127-876-11	CERAMIC	0.01uF 10% 50V
C434	1-126-961-11	ELECT	2.2uF 20% 50V	CC12	1-127-876-11	CERAMIC	0.01uF 10% 50V
C435	1-126-961-11	ELECT	2.2uF 20% 50V	CC14	1-127-876-11	CERAMIC	0.01uF 10% 50V
C436	1-126-961-11	ELECT	2.2uF 20% 50V	CC15	1-127-876-11	CERAMIC	0.01uF 10% 50V
C446	1-126-963-11	ELECT	4.7uF 20% 50V				
C452	1-126-964-11	ELECT	10uF 20% 50V				
C471	1-104-658-11	ELECT	100uF 20% 10V				
C472	1-127-888-11	CERAMIC	0.1uF 10% 50V				
C481	1-126-964-11	ELECT	10uF 20% 50V				
C482	1-127-888-11	CERAMIC	0.1uF 10% 50V				
C483	1-126-934-11	ELECT	220uF 20% 16V				
C484	1-127-888-11	CERAMIC	0.1uF 10% 50V				
C500	1-128-579-11	ELECT	2.2uF 20% 100V				
C501	1-126-963-11	ELECT	4.7uF 20% 50V	D501	8-719-991-33	DIODE	1SS133T-77
C502	1-128-809-11	CERAMIC	100PF 5% 50V	D503	8-719-991-33	DIODE	1SS133T-77
C503	1-128-809-11	CERAMIC	100PF 5% 50V	D551	8-719-991-33	DIODE	1SS133T-77
C504	1-102-233-00	CERAMIC	33PF 10% 500V	D603	8-719-991-33	DIODE	1SS133T-77
C506	1-107-583-11	CERAMIC	3PF 0.25PF 500V	D752	8-719-991-33	DIODE	1SS133T-77
C507	1-104-658-11	ELECT	100uF 20% 10V	D801	8-719-986-46	DIODE	HZS20-1LTA
C508	1-126-947-11	ELECT	47uF 20% 35V	D802	8-719-068-28	DIODE	HZ6.8BP-TK
C511	1-162-815-11	CERAMIC	47PF 5% 500V	D804	6-500-522-11	DIODE	10EDB40-TA2B5
C512	1-162-815-11	CERAMIC	47PF 5% 500V	D805	6-500-522-11	DIODE	10EDB40-TA2B5
C513	1-128-813-11	CERAMIC	220PF 5% 50V	D806	6-500-522-11	DIODE	10EDB40-TA2B5
				D807	6-500-522-11	DIODE	10EDB40-TA2B5
				D811	8-719-072-05	DIODE	RBV-602LF-A
				D821	8-719-043-76	DIODE	AK04V1

TA-DK2

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D881	8-719-991-33	DIODE 1SS133T-77		R504	1-249-439-11	CARBON	68K 5% 1/4W
D882	8-719-991-33	DIODE 1SS133T-77		R505	1-249-421-11	CARBON	2.2K 5% 1/4W
D883	8-719-991-33	DIODE 1SS133T-77		R506	1-249-440-11	CARBON	82K 5% 1/4W
		< IC >		R507	1-249-414-11	CARBON	560 5% 1/4W
				R508	1-249-405-11	CARBON	100 5% 1/4W F
IC400	6-707-169-01	IC M61542FP		R509	1-249-405-11	CARBON	100 5% 1/4W F
IC501	6-700-943-01	IC uPC2581V-S		R510	1-234-182-11	ENCAPSULATED COMPONENT	0.22X2 5W
IC821	8-759-071-48	IC TA7807S		R511	1-247-847-11	CARBON	4.7K 5% 1/4W
IC822	8-759-071-47	IC TA79007S		R512	1-240-855-81	CARBON	6.2K 5% 1/4W F
		< JACK >		R513	1-249-419-11	CARBON	1.5K 5% 1/4W
J401	1-770-614-11	JACK, PIN 4P (VIDEO 1 AUDIO IN, VIDEO 2 AUDIO IN)		R514	1-249-431-11	CARBON	15K 5% 1/4W
J402	1-770-614-11	JACK, PIN 4P (DVD AUDIO IN, SA-CD/CD AUDIO IN)		R520	1-249-439-11	CARBON	68K 5% 1/4W
J403	1-774-785-11	JACK, PIN 1P (SUB WOOFER AUDIO OUT)		R521	1-249-393-11	CARBON	10 5% 1/4W F
		< COIL >		R522	1-247-871-11	CARBON	47K 5% 1/4W
L501	1-420-872-52	COIL, AIR-CORE		R523	1-249-389-11	CARBON	4.7 5% 1/4W F
L551	1-420-872-52	COIL, AIR-CORE		R524	1-249-404-00	CARBON	82 5% 1/4W F
		< TRANSISTOR >		R525	1-249-421-11	CARBON	2.2K 5% 1/4W
Q471	8-729-922-37	TRANSISTOR 2SD2144S-TP-UVW		R551	1-247-831-11	CARBON	1K 5% 1/4W
Q501	8-729-119-76	TRANSISTOR 2SA1175-HFE		R552	1-249-439-11	CARBON	68K 5% 1/4W
Q502	8-729-141-30	TRANSISTOR 2SC3623ATP-LK		R553	1-249-422-11	CARBON	2.7K 5% 1/4W
Q505	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP		R554	1-249-439-11	CARBON	68K 5% 1/4W
Q506	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP		R555	1-249-421-11	CARBON	2.2K 5% 1/4W
				R556	1-249-440-11	CARBON	82K 5% 1/4W
Q508	8-729-119-78	TRANSISTOR 2SC2785-HFE		R557	1-249-414-11	CARBON	560 5% 1/4W
Q551	8-729-119-76	TRANSISTOR 2SA1175-HFE		R558	1-249-405-11	CARBON	100 5% 1/4W F
Q552	8-729-141-30	TRANSISTOR 2SC3623ATP-LK		R559	1-249-405-11	CARBON	100 5% 1/4W F
Q555	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP		R560	1-234-182-11	ENCAPSULATED COMPONENT	0.22X2 5W
Q556	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP		R561	1-247-847-11	CARBON	4.7K 5% 1/4W
				R562	1-240-855-81	CARBON	6.2K 5% 1/4W F
Q560	8-729-119-78	TRANSISTOR 2SC2785-HFE		R563	1-249-419-11	CARBON	1.5K 5% 1/4W
Q608	8-729-119-78	TRANSISTOR 2SC2785-HFE		R564	1-249-431-11	CARBON	15K 5% 1/4W
Q801	8-729-140-97	TRANSISTOR 2SB734-T-34		R570	1-249-439-11	CARBON	68K 5% 1/4W
Q881	8-729-042-09	TRANSISTOR 2SA1038S-RSE-TP		R571	1-249-393-11	CARBON	10 5% 1/4W F
Q882	8-729-119-78	TRANSISTOR 2SC2785-HFE		R572	1-247-871-11	CARBON	47K 5% 1/4W
Q883	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA		R573	1-249-389-11	CARBON	4.7 5% 1/4W F
		< RESISTOR >		R624	1-249-404-00	CARBON	82 5% 1/4W F
R401	1-247-831-11	CARBON 1K 5% 1/4W		R625	1-249-421-11	CARBON	2.2K 5% 1/4W
R402	1-247-831-11	CARBON 1K 5% 1/4W		R780	1-247-847-11	CARBON	4.7K 5% 1/4W
R403	1-247-831-11	CARBON 1K 5% 1/4W		R782	1-247-879-11	CARBON	100K 5% 1/4W
R404	1-247-831-11	CARBON 1K 5% 1/4W		R783	1-247-879-11	CARBON	100K 5% 1/4W
R406	1-247-807-31	CARBON 100 5% 1/4W		R802	1-249-409-11	CARBON	220 5% 1/4W F
				R803	1-249-389-11	CARBON	4.7 5% 1/4W F
R407	1-247-807-31	CARBON 100 5% 1/4W		R804	1-249-429-11	CARBON	10K 5% 1/4W
R451	1-247-831-11	CARBON 1K 5% 1/4W		R806	1-247-863-11	CARBON	22K 5% 1/4W
R452	1-247-831-11	CARBON 1K 5% 1/4W		R815	1-249-381-11	CARBON	1 5% 1/4W F
R453	1-247-831-11	CARBON 1K 5% 1/4W		R816	1-249-381-11	CARBON	1 5% 1/4W F
R454	1-247-831-11	CARBON 1K 5% 1/4W		R881	1-247-871-11	CARBON	47K 5% 1/4W
				R882	1-249-429-11	CARBON	10K 5% 1/4W
R469	1-247-831-11	CARBON 1K 5% 1/4W		R883	1-249-427-11	CARBON	6.8K 5% 1/4W
R471	1-249-415-11	CARBON 680 5% 1/4W		R884	1-249-436-11	CARBON	39K 5% 1/4W
R472	1-247-831-11	CARBON 1K 5% 1/4W		R885	1-247-831-11	CARBON	1K 5% 1/4W
R473	1-249-421-11	CARBON 2.2K 5% 1/4W		△ R910	1-243-635-11	FUSIBLE	0.33 5% 1/2W F
R500	1-247-863-11	CARBON 22K 5% 1/4W		RR11	1-249-393-11	CARBON	10 5% 1/4W F
				RR12	1-249-393-11	CARBON	10 5% 1/4W F
R501	1-247-831-11	CARBON 1K 5% 1/4W		RR14	1-249-393-11	CARBON	10 5% 1/4W F
R502	1-249-439-11	CARBON 68K 5% 1/4W		RR15	1-249-393-11	CARBON	10 5% 1/4W F
R503	1-249-422-11	CARBON 2.7K 5% 1/4W					

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< RELAY >							
RY501	1-755-416-12	RELAY		A-1216-815-A		MIC TONE BOARD, COMPLETE	
RY601	1-755-416-12	RELAY				*****	
RY702	1-755-267-11	RELAY					
< TERMINAL BOARD >							
TM601	1-694-785-11	TERMINAL BOARD (4P) (SPEAKERS FRONT A)		C2009	1-124-257-00	ELECT	2.2uF 20% 50V
TM604	1-694-785-11	TERMINAL BOARD (4P) (SPEAKERS FRONT B)		C2010	1-164-245-11	CERAMIC CHIP	0.015uF 10% 25V

MIC AMP BOARD							

< CAPACITOR >							
C2000	1-162-974-11	CERAMIC CHIP	0.01uF	C2014	1-164-217-11	CERAMIC CHIP	150PF 5% 50V
C2001	1-124-257-00	ELECT	2.2uF 20%	C2015	1-164-227-11	CERAMIC CHIP	0.022uF 10% 25V
C2002	1-115-416-11	CERAMIC CHIP	0.001uF 5%	C2016	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C2004	1-124-465-00	ELECT	0.47uF 20%	C2017	1-124-257-00	ELECT	2.2uF 20% 50V
C2005	1-162-962-11	CERAMIC CHIP	470PF 10%	C2018	1-124-257-00	ELECT	2.2uF 20% 50V
C2026	1-164-156-11	CERAMIC CHIP	0.1uF	C2019	1-124-257-00	ELECT	2.2uF 20% 50V
C2027	1-124-584-00	ELECT	100uF 20%	C2021	1-124-257-00	ELECT	2.2uF 20% 50V
C2030	1-164-156-11	CERAMIC CHIP	0.1uF	C2023	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V
C2032	1-124-261-00	ELECT	10uF 20%	C2033	1-126-160-11	ELECT	1uF 20% 50V
C2050	1-162-974-11	CERAMIC CHIP	0.01uF	C2034	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V
C2051	1-124-257-00	ELECT	2.2uF 20%	C2035	1-124-584-00	ELECT	100uF 20% 10V
C2052	1-115-416-11	CERAMIC CHIP	0.001uF 5%	C2036	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V
C2054	1-124-465-00	ELECT	0.47uF 20%	C2037	1-124-261-00	ELECT	10uF 20% 25V
C2055	1-162-962-11	CERAMIC CHIP	470PF 10%	C2038	1-162-962-11	CERAMIC CHIP	470PF 10% 50V
C2095	1-162-974-11	CERAMIC CHIP	0.01uF	C2039	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V
< CONNECTOR >							
CNP100	1-784-922-11	PIN, CONNECTOR 5P		C2040	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V
< IC >							
IC2001	8-759-710-97	IC NJM4565M-D		C2041	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V
< JACK >							
J2000	1-815-313-21	JACK (KARAOKE MIC 1)		C2044	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V
J2050	1-815-313-21	JACK (KARAOKE MIC 2)		C2045	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
< RESISTOR >							
R2000	1-216-864-11	SHORT CHIP	0	C2046	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V
R2001	1-216-845-11	METAL CHIP	100K 5%	C2061	1-124-257-00	ELECT	2.2uF 20% 50V
R2002	1-216-821-11	METAL CHIP	1K 5%	C2062	1-162-965-11	CERAMIC CHIP	0.0015uF 10% 50V
R2003	1-216-845-11	METAL CHIP	100K 5%	C2063	1-115-467-11	CERAMIC CHIP	0.22uF 10% 10V
R2004	1-216-825-11	METAL CHIP	2.2K 5%	C2064	1-164-217-11	CERAMIC CHIP	150PF 5% 50V
R2005	1-216-837-11	METAL CHIP	22K 5%	C2065	1-162-227-11	CERAMIC CHIP	0.022uF 10% 25V
R2016	1-216-829-11	METAL CHIP	4.7K 5%	C2066	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
R2017	1-216-828-11	METAL CHIP	3.9K 5%	C2067	1-124-257-00	ELECT	2.2uF 20% 50V
R2050	1-216-864-11	SHORT CHIP	0	C2068	1-124-257-00	ELECT	2.2uF 20% 50V
R2051	1-216-845-11	METAL CHIP	100K 5%	C2069	1-124-257-00	ELECT	2.2uF 20% 50V
R2052	1-216-821-11	METAL CHIP	1K 5%	C2072	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V
R2053	1-216-845-11	METAL CHIP	100K 5%	C2115	1-124-257-00	ELECT	2.2uF 20% 50V
R2054	1-216-825-11	METAL CHIP	2.2K 5%	C2180	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
R2055	1-216-837-11	METAL CHIP	22K 5%	C2181	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
< CONNECTOR >							
CNP101	1-766-739-11	CONNECTOR, BOARD TO BOARD 8P		C2182	1-162-966-11	CERAMIC CHIP	0.0022uF 10% 50V
CNP102	1-766-739-11	CONNECTOR, BOARD TO BOARD 8P		C2228	1-100-566-11	CERAMIC CHIP	0.1uF 10% 25V
< DIODE >							
D102	8-719-046-39	LED SEL5821A-TP15 (KARAOKE ON/OFF)					

MIC TONE	STANDBY
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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D103	8-719-046-39	LED SEL5821A-TP15 (KARAOKE VOCAL SELECT)					< VARIABLE RESISTOR >
D104	8-719-046-39	LED SEL5821A-TP15 (KARAOKE SCORE)		RV2000	1-227-735-11	RES, VAR, CARBON 10K (KARAOKE MIC 1 VOL)	
D2100	8-719-069-54	DIODE UDZSTE-175.1B		RV2001	1-227-737-11	RES, VAR, CARBON 100K (KARAOKE LOW (MIC 1 TONE))	
		< IC >		RV2002	1-227-737-11	RES, VAR, CARBON 100K (KARAOKE MID (MIC 1 TONE))	
IC2000	6-709-163-01	IC M5243BFP09-CF0J		RV2003	1-227-737-11	RES, VAR, CARBON 100K (KARAOKE HIGH (MIC 1 TONE))	
IC2003	8-759-710-97	IC NJM4565M-D		RV2050	1-227-735-11	RES, VAR, CARBON 10K (KARAOKE MIC 2 VOL)	
IC2004	8-759-710-97	IC NJM4565M-D		RV2051	1-227-737-11	RES, VAR, CARBON 100K (KARAOKE LOW (MIC 2 TONE))	
IC2010	6-710-713-01	IC M65831AFP		RV2052	1-227-737-11	RES, VAR, CARBON 100K (KARAOKE MID (MIC 2 TONE))	
		< JUMPER RESISTOR >		RV2053	1-227-737-11	RES, VAR, CARBON 100K (KARAOKE HIGH (MIC 2 TONE))	
JR2114	1-216-864-11	SHORT CHIP 0		RV2109	1-227-741-11	RES, VAR, CARBON 50K (KARAOKE ECHO LEVEL (MIC))	
		< TRANSISTOR >					
Q2002	8-729-055-10	FET 2SK3378ENTL					< SWITCH >
Q2003	8-729-055-10	FET 2SK3378ENTL		S100	1-771-410-21	SWITCH, TACTILE (I/O)	
		< RESISTOR >		S101	1-771-410-21	SWITCH, TACTILE (DISPLAY)	
R101	1-216-813-11	METAL CHIP 220	5% 1/10W	S102	1-771-410-21	SWITCH, TACTILE (KARAOKE KEY CONTROL #)	
R102	1-216-815-11	METAL CHIP 330	5% 1/10W	S103	1-771-410-21	SWITCH, TACTILE (KARAOKE KEY CONTROL b)	
R103	1-216-817-11	METAL CHIP 470	5% 1/10W	S104	1-771-410-21	SWITCH, TACTILE (KARAOKE SCORE)	
R104	1-216-819-11	METAL CHIP 680	5% 1/10W	S105	1-771-410-21	SWITCH, TACTILE (KARAOKE VOCAL SELECT)	
R105	1-216-821-11	METAL CHIP 1K	5% 1/10W	S106	1-771-410-21	SWITCH, TACTILE (KARAOKE ON/OFF)	
R162	1-216-811-11	METAL CHIP 150	5% 1/10W	X2101	1-781-853-21	VIBRATOR, CERAMIC (2MHz)	
R163	1-216-814-11	METAL CHIP 270	5% 1/10W				
R164	1-216-814-11	METAL CHIP 270	5% 1/10W				
R2006	1-216-835-11	METAL CHIP 15K	5% 1/10W				
R2007	1-216-833-11	METAL CHIP 10K	5% 1/10W				
R2008	1-216-825-11	METAL CHIP 2.2K	5% 1/10W				
R2009	1-216-825-11	METAL CHIP 2.2K	5% 1/10W				
R2010	1-216-845-11	METAL CHIP 100K	5% 1/10W				
R2011	1-216-833-11	METAL CHIP 10K	5% 1/10W				
R2012	1-216-833-11	METAL CHIP 10K	5% 1/10W				
R2020	1-216-857-11	METAL CHIP 1M	5% 1/10W				
R2028	1-216-835-11	METAL CHIP 15K	5% 1/10W				
R2035	1-216-803-11	METAL CHIP 33	5% 1/10W	C901	1-135-798-11	CERAMIC 0.22uF 50V	
R2039	1-216-803-11	METAL CHIP 33	5% 1/10W	C902	1-135-798-11	CERAMIC 0.22uF 50V	
R2040	1-216-837-11	METAL CHIP 22K	5% 1/10W	C911	1-135-798-11	CERAMIC 0.22uF 50V	
R2041	1-216-835-11	METAL CHIP 15K	5% 1/10W	C912	1-135-798-11	CERAMIC 0.22uF 50V	
R2043	1-216-835-11	METAL CHIP 15K	5% 1/10W	C913	1-126-959-11	ELECT 0.47uF 20% 50V	
R2044	1-216-827-11	METAL CHIP 3.3K	5% 1/10W	C914	1-126-936-11	ELECT 3300uF 20% 16V	
R2045	1-216-835-11	METAL CHIP 15K	5% 1/10W	C915	1-126-943-11	ELECT 2200uF 20% 25V	
R2046	1-216-813-11	METAL CHIP 220	5% 1/10W	C916	1-126-942-61	ELECT 1000uF 20% 25V	
R2049	1-216-837-11	METAL CHIP 22K	5% 1/10W				
R2056	1-216-825-11	METAL CHIP 2.2K	5% 1/10W				
R2058	1-216-825-11	METAL CHIP 2.2K	5% 1/10W				
R2060	1-216-845-11	METAL CHIP 100K	5% 1/10W	CNP801	1-784-922-11	PIN, CONNECTOR 5P	
R2061	1-216-833-11	METAL CHIP 10K	5% 1/10W	CNP900	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P	
R2069	1-216-825-11	METAL CHIP 2.2K	5% 1/10W	CNP903	1-564-506-11	PLUG, CONNECTOR 3P	
R2078	1-216-833-11	METAL CHIP 10K	5% 1/10W	* CNP904	1-565-792-11	PIN, CONNECTOR (3.96mm PITCH) 2P	
R2079	1-216-836-11	METAL CHIP 18K	5% 1/10W	CNP906	1-766-203-11	PLUG, CONNECTOR PIN (PC BOARD) 5P	
R2080	1-216-833-11	METAL CHIP 10K	5% 1/10W				
R2113	1-216-833-11	METAL CHIP 10K	5% 1/10W				
R2115	1-216-815-11	METAL CHIP 330	5% 1/10W	D901	8-719-991-33	DIODE 1SS133T-77	
R2116	1-216-815-11	METAL CHIP 330	5% 1/10W	D910	6-500-522-11	DIODE 10EDB40-TA2B5	
R2218	1-216-829-11	METAL CHIP 4.7K	5% 1/10W	D911	6-500-522-11	DIODE 10EDB40-TA2B5	
R2219	1-216-829-11	METAL CHIP 4.7K	5% 1/10W	D912	6-500-522-11	DIODE 10EDB40-TA2B5	
				D913	6-500-522-11	DIODE 10EDB40-TA2B5	

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Remark</u>
D914	8-719-991-33	DIODE 1SS133T-77				ACCESSORIES	
D915	8-719-991-33	DIODE 1SS133T-77				*****	
D920	6-500-522-11	DIODE 10EDB40-TA2B5		1-480-024-11		STANDARD COMMANDER (RM-AAU011)	
D921	6-500-522-11	DIODE 10EDB40-TA2B5				(including BATTERY CASE LID)	
D922	6-500-522-11	DIODE 10EDB40-TA2B5		2-894-123-11		MANUAL, INSTRUCTION (ENGLISH)	
D923	6-500-522-11	DIODE 10EDB40-TA2B5		2-894-123-21		MANUAL, INSTRUCTION	
		< TRANSISTOR >				(TRADITIONAL CHINESE)	
Q901	8-729-119-78	TRANSISTOR 2SC2785-HFE		2-894-123-31		MANUAL, INSTRUCTION (MALAY)	
Q911	8-729-119-78	TRANSISTOR 2SC2785-HFE					
		< RESISTOR >					
△R810	1-243-634-11	FUSIBLE	0.22	5%	1/2W F		
△R812	1-243-634-11	FUSIBLE	0.22	5%	1/2W F		
R903	1-247-871-11	CARBON	47K	5%	1/4W		
R904	1-247-847-11	CARBON	4.7K	5%	1/4W		
R905	1-249-381-11	CARBON	1	5%	1/4W F		
R911	1-247-871-11	CARBON	47K	5%	1/4W		
R912	1-249-435-11	CARBON	33K	5%	1/4W		
R913	1-249-429-11	CARBON	10K	5%	1/4W		
		< RELAY >					
△RY901	1-755-439-11	RELAY					
		< TRANSFORMER >					
△T902	1-443-517-11	TRANSFORMER, POWER (SUB)					

		VOLUME BOARD					

		< CONNECTOR >					
* CN105	1-564-518-11	PLUG, CONNECTOR 3P					
		< ROTARY ENCODER >					
RV102	1-418-725-41	ENCODER, ROTARY (12 TYPE)					
		(MASTER VOLUME)					

		MISCELLANEOUS					

61	1-829-034-11	WIRE (FLAT TYPE) (25 CORE)					
△101	1-777-071-83	CORD, POWER					
△F901	1-532-464-33	FUSE (T2.5AL/250V)					
Q503	6-702-390-01	TRANSISTOR MN2488-OPY-MK					
Q504	6-702-391-01	TRANSISTOR MP1620-OPY-MK					
Q553	6-702-390-01	TRANSISTOR MN2488-OPY-MK					
Q554	6-702-391-01	TRANSISTOR MP1620-OPY-MK					
△T901	1-443-914-11	TRANSFORMER, POWER (MAIN)					

REVISION HISTORY

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